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EAST POPLAR URIT WELL HO. 32

ROOSEVELT COUNTY, MONTAKA

EAST POPLAR UNIT WELL NO. 32 ROCEEVELT COUNTY, MONTANA HURFHY CORPORATION--OPERATOR

HISTORY	ï
COMPLETION DATAPage	2
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& DIAMOND CORE BIT RECORDSPage	8
SAMPLE DESCRIPTION	ò

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WELL KISTORY

WELL NO.:

East Poplar Unit No. 32

LOCATION:

SW NW Section 15, Township 28 North, Range 51 East

ELEVATION:

2079 Gr. - 2088 K.B.

DRIG. COMPRACTOR:

Peared Drilling Company

SPUDDED:

11:00 A.M., March 22, 1954

Rig released 2:00 P.M., April 21, 1954

COMP. COMMRACTOR:

Western Oil Well Service Co.

COMPINED:

May 8, 1954

TOTAL DEFINE:

5821' Schlumberger equals 5816' Driller

CASING:

9 5/8" @ 992.55' w/390 sm cement 5 1/2" @ 5819.00' w/300 sm cement

TUBING:

2 3/8" @ 5768.131

PERFORATIONS:

"C" Zone 5790%-5800%

PACKER:

Mone

ACID TREATMENT:

"C" Zone - 3000 gallons etching acid

INITIAL POTENTIAL:

4.75 BFPH, 88% water

TYPE COMPLETION:

Single Froducer in the "C" Zone

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EAST POPLAR UNIT NO. 32

- 10-05-94 Move in rig up pulling unit. Pump 100 barrels corrosion inhibited 10.2# water down casing, 20 barrels down the tubing. Pull tubing and lay down. Shut down.
- 10-06-94 Rig up Penkota Wireline run in to 5400' and set $5\frac{1}{2}$ " B.P. rig down.
- 10-23-94 Pressure casing to 500#'s held for 30 minutes.

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ASSIGNED EFFECTIVE 12/31/52 FROM C.H. MURPHY, Jr. ALL TO: MURPHY CORPORATION 15/32
Wm. & THEODOSA NOLAN1/32

ASSIGNED EFFECTIVE 9/29/54 FROM MURPHY TO: MARINE OIL 1/4 OF 15/32 OR 15/128 OWNERS: MURPHY 45/128, PLACID OIL CO. 64/128, NOLANS 4/128, & MARINE OIL 15/128

ASSIGNED EFFECTIVE 4/1/55 FROM MARINE OIL TO Wm. J. SHERRY 1/4 OF 15/128 OR 15/512 OWNERS: MURPHY 180/512, PLACID OIL CO. 256/512, NOLANS 16/512, MARINE OIL 45/512, & Wm. J. SHERRY 15/512

ASSIGNED EFFECTIVE 4/4/55 FROM Wm. J. SHERRY TO: MURPHY 1/4 OF 15/512 OR 15/2048
OWNERS: MURPHY 735/2048, PLACID OIL CO. 1024/2048, NOLANS 64/2048, MARINE OIL 180/2048,
& Wm. J. SHERRY 45/2048

ASSIGNED EFFECTIVE 4/2/82 FROM PLACID OIL CO. TO: PARTNERSHIP PROPERTIES COMPANY- ALL OWNERS: MURPHY 735/2048, NOLANS 64/2048, MARINE OIL 180/2048, Wm. J. SHERRY 45/2048, PARTNERSHIP PROPERTIES COMPANY 1024/2048

ASSIGNED EFFECTIVE 12/16/86 FROM PARTNERSHIP PROPERTIES COMPANY TO: FAIRWAY RESOURCES, INC. (896/2048), & TPEX EXPLORATION, INC. (128/2048)

OWNERS: MURPHY 735/2048, NOLANS 64/2048, MARINE OIL 180/2048, Wm. J. SHERRY 45/2048, FAIRWAY RESOURCES, INC. 896/2048, & TPEX EXPLORATION, INC. 128/2048

ASSIGNED EFFECTIVE 12/16/86 FROM FAIRWAY RESOURCES, INC. (896/2048) TO:WELLSTAR CORPORATION (896/2048)

ASSIGNED EFFECTIVE 3/19/87 FROM: TPEX EXPLORATION, INC. (128/2048) TO: MURPHY OIL USA, INC.

ASSIGNED EFFECTIVE 3/19/87 FROM: WELLSTAR CORPORATION (896/2048) TO: MURPHY OIL USA, INC.

206 60807 Contract No. I-37ind-

UNITED STATES

DEPARTMENT OF THE INTERIOR 1289

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BUREAU OF INDIAN AFFAIRS 3858

OIL AND GAS MINING LEASE—ALLOTTED INDIAN LANDS TO STATE OF THE PARTY O

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(May 1949)

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(d) Monthstatements.—Table is to the first of the first o

800 21 - EE TR filesizel' containing acres more or less, together with the right to construct and maintain thereupon all works, buildings, plants, waterways, roads, telegraph and telephone lines, plpe lines, reservoirs, tanks, pumping stations, or other structures necessary to the full enjoyment hereof for the term of 10 years from and after the approval hereof by the Secretary, of the Interior and as much longer thereafter as oil and/or gas is produced in paying quantities from said land, carried the control of the contr

2. The term "oil and gas supervisor" as employed herein shall refer to such officer of officers as the Secretary of the Interior may designate to supervise oil and gas operations on Indian lands. The term "superintendent" as used herein shall refer to the superintendent or other official in charge of the Indian Agency having jurisdiction over the lands leased.

3. In consideration of the foregoing, the lessee hereby agrees:

(a) Bond. To furnish such bond as may be required by the regulations of the Secretary of the Interior, with satisfactory surety, or United States bonds as surety therefor, conditioned upon compliance with the terms of this lease.

(b) Wells.—(1) To drill and produce all wells necessary to offset or protect the leased land from drainage by wells on adjoining lands not the property of the lessor, or in lieu thereof, to compensate the lessor in full each month for the estimated loss of royalty through drainage: Provided, That during the period of supervision by the Secretary of the Interior, the necessity for offset wells shall be determined by the oil and gas supervisor and payment in lieu of drilling and production shall be with the consent of, and in an amount determined by the Secretary of the Interior; (2) at the election of the lessee to drill and produce other wells: Provided. That the right to drill and produce such other wells shall be subject to any system of well spacing or production allotments authorized and approved under applicable law or regulations, approved by the Secretary of the Interior and affecting the field or area in which the lessed lands are situated; and (3) if the lessee elects not to drill and produce such other wells for any period the Secretary of the Interior may, within 10 days after due notice in writing, either require the drilling, and production of such wells to the number necessary, in his opinion, to insure reasonable diligence in the development and operation of the property, or may in lieu of such additional diligent drilling and production require the payment of and after the first anniversary date of this lesse of not to exceed \$1 per acre per annum, which sum shall be in addition to any rental or royalty hereinafter specified. hereinafter specified.

16-17803-3

16-17803-3

WARRY SEC.

- 7. Removal of buildings, improvements, and equipment.—Lessee shall be the owner of and shall have the right to remove from the leased premises, within 90 days after termination of this lease, any and all buildings, structures, casing, material, and/or equipment placed thereon for the purpose of development and operation hereunder, save and except casing in wells and other material, equipment, and structures necessary for the continued operation of wells producing or capable of being produced in paying quantities as determined by the Secretary of the Interior, on said leased land at the time of surrender of this lease or termination thereof; and except as otherwise provided herein, all casing in wells, material, structures, and equipment shall be and become the property of the lessor.
- 8. Relinquishment of supervision by the Secretary of the Interior.—Should the Secretary of the Interior, at any time during the life of this instrument, relinquish supervision as to all or part of the acreage covered hereby, such relinquishment shall not bind lessee until said Secretary shall have given 30 days written notice. Until said requirements are fulfilled, lessee shall continue to make all payments due hereunder as provided in section 3 (c). After notice of relinquishment has been received by lessee, as herein provided, this lease shall be subject to the following further conditions:
- (a) All rentals and royalties thereafter accruing shall be paid in the following manner: Rentals and royalties shall be paid directly to lessor or his successors in title, or to a trustee appointed under the provisions of section 9 hereof.
- (b) If, at the time supervision is relinquished by the Secretary of the Interior, lessee shall have made all payments then due hereunder, and shall have fully performed all obligations on its part to be performed up to the time of such relinquishment, then the bond given to secure the performance hereof, on file in the Indian Office, shall be of no further force or effect.
- (c) Should such relinquishment affect only part of the acreage, then lessee may continue to drill and operate the land covered hereby as an entirety: Provided, That lessee shall pay in the manner prescribed by section 3 (c), for the benefit of lessor such proportion of all rentals and royalties due hereunder as the acreage retained under the supervision of the Secretary of the Interior bears to the entire acreage of the lease, the remainder of such rentals and royalties to be paid directly to lessor or his successors in title or said trustee as the case may be, as provided in subdivision (a) of this section.
- 9. Division of fee.—It is covenanted and agreed that should the fee of said land now or hereafter be divided into separate parcels, held by different owners, or should the rental or royalty interests hereunder be so divided in ownership, the obligations of lessee hereunder shall not be added to or changed in any manner whatsoever save as specifically provided by the terms of of lessee hereunder shall not be added to or changed in any manner whatsoever save as specifically provided by the terms of this lease. Notwithstanding such separate ownership, lessee may continue to drill and operate said premises as an entirety: Provided, That each separate owner shall receive such proportion of all rentals and royalties accruing by the this set of the rental and royalty interest owner shall receive such proportion of all rentals and royalties accruing by the this set, or into the entire acreage covered by the this set, or into the entire rental and royalty interest as the case may be: Provided further, That if, at any time after departmental uppervision hereof is relinquished, in whole or in part, there shall be four or more parties entitled to return or ovalities hereunder, whether said parties are so entitled by, virtue of undivided interests or by virtue of ownership of separate particles of the fairly through hereby, lessee, at his election may withhold the payment of further rentals or royalties (except as to the portion due the Indian lessor while under restriction), until all of said parties shall agree upon and designate in writing and in a recordable instrument a trustee to receive all payments due hereunder on behalf of said parties and their respective successors in title... Payments to said trustee shall constitute lawful payments hereunder, and the sole risk of an improper or unlawful distribution of said funds hy said trustee shall rest upon the parties naming said trustee and their respective successors in title. by said trustee shall rest upon the parties naming said trustee and their respective successors in title.

DEPARTMENT OF THE INTERIOR

- 10. Drilling and producing restrictions.—It is covenanted and agreed that the Secretary of the Interior may impose restrictions as to time or times for the drilling of wells and as to the production from any well or wells drilled when in his judgment such action may be necessary or proper for the protection of the natural resources of the leased land and the interests of the Indian lessor, and in the exercise of his judgment the Secretary may take into consideration, among other things, Federal laws, State laws, or regulations by competent Federal or State authorities or lawful agreements among operators regulating either drilling or production, or both.
- 11. Unit operation.—The parties hereto agree to subscribe to and abide by any agreement for the cooperative or unit development of the field or area, affecting the leased lands, or any pool thereof, if and when collectively adopted by a majority operating interest therein and approved by the Secretary of the Interior, during the period of supervision.
- 12. Helium—public emergency.—It is covenanted and agreed that helium gas, carbon dioxide gas, and all other natural gases are included under the termitigas has used in this lease; and in the eventigas is discovered containing helium the United States Government shall have the right to purchase, at reasonable prices, all or any part of the production and to regulate the amount and manner of production; and in time of war or other public emergency, the United States Government shall have the option to purchase all or any part of the products produced under this lease.
- 13. Conservation.—The lessee in consideration of the rights herein granted agrees to abide by the provisions of any act of Congress, or any order or regulation prescribed pursuant thereto, relating to the conservation, production, or marketing of oil, gas, or other hydrocarbon substances.
- Con 14. Heirs and successors in interest.—It is further covenanted and agreed that each obligation hereunder shall extend to and be binding upon, and every benefit hereof shall inure to, the heirs, executors, administrators, successors of, or assigns of the respective parties hereto. 1 ke : 1

SLY IN WITNESS WHEREOF, the said parties have hereunto subscribed their names and affixed their seals on the day and year first above mentioned.

Two witnesses to execution by lessor: Birdie Lester Vance (LE/T) Suptiblicity

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CHICHENTOED STATES DEPARTMENT OF THE INTERIOR BUREAU OF INDIAN AFFAIRS

Contract No.

1-37-1m4-12897 Our Lease No. 3

ASSIGNMENT OF MINING LEASE

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coproved July 31, 1950, entered into by and b	etween	Birdie	Lester V	ance and	1
Leroy Vance, vife and husbe	and.			· .	, lessors,
and C. H. MURPHY, JR. lessee, covering the following	ig described	l lands in	the Fort I	eck Indian	Reservation
in the State of Montana, County of Roosevelt:					i na out e est
					1837
		, ; ;	<i>:</i>	3	Transfer on the Control of the Contr
Township 28 North, Range 51					, 8
Sec. 10: We, ve 6we		. :::			٠.
Sec. 21: GE IE	₽.°		•	,	
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	`1;	Service.			
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AND WHEREAS, the above described lease is sub 869, approved by the Assistant Commissioner of India Acting Director of the United States Geological Survivors, NOW, THEREFORE, for and in consideration o which is hereby acknowledged, the said C. H. MURI by bargains, sells, transfers, assigns and conveys all of it to the approval of the Secretary of the Interior, to Mof El Dorado, Arkansas, an undivided fifteen thirty a Delaware Corporation of Shreveport, Louisiana, and G. NOLAN AND THEODOSIA M. NOLAN of El Dointerest; said assignment to be effective from date of a	an Affairs ey on Augu f TEN AN PHY, JR., his right, to fURPHY of seconds (1) n undivided orado, Arka approval he	on Augus ist 23, 195 ND MORE the owner the and in CORPORA 5/82) interd in one-half ansas, an wereof by the	dollars of the aboterest in a attion, a est; to PL (1/2) interest in a condition of the aboterest in a attion, a est; to PL (1/2) interest in a condition of the secretary	, and appr (\$10.00), the ove-described nd to said Louisiana ACID OIL rest; and to one thirty-so ry of the I	e receipt of d lease, here- lease, subject Corporation COMPANY, o WILLIAM econd (1/32) nterior.
IN WITNESS WHEREOF, the said assignor has I	hereunto se	t his hand	and seal, t	his glat	day of
Consultation with N			/	0	
ADM LET BURNER.		9. A. K	~	Kan L	AL,

(OVER)

Township 28 North Range 31 East N.P.M. NW/4: W/2 8W/4 Sec. 10:

and C. H. MURPHY, JR., Lessee, covering the following described lands in the Fort Peck Indian Reser-Vation in the State of Montana, County of Roosevett in force and effect consultations of assigned on any interest of the estimate or and transfer of said there are The United States Pidelity and Curranty Company, of Baltimore, Meryland, surviy on the head

, entered into by and between the Birdie Lester Vance et vir UNITED STATES POBLITY AND Lessors,

Contract No.

WHEREAS, the Secretary of the Interior has heretofore approved a certain oil and gas mining lease

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ASSIGNMENT OF MINING LEASE

UNITED STATES

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I-37-Ind-12897 Lease No. 3858

ADAPTED FROM . FORM 5-154E . .

ADAPTED FROM FORM 5-154E

UNITED STATES

Contract No.

I-37-Ind-1289' Lease No. 385

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ASSIGNMENT OF MINING LEASE

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and C. H. MURPI vation in the State	IY, JR., Lessee, co	vering the follo	wing described la f:	ands in the Fort the severage of Pentine they are	Peck In	dian Reser-
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iary of the Inter- stipulations in se Secretary of the	e in the gions are on, hereby accepts id user; ed lader later for appticable f teast oud this ap	e such assignm ture of lease. • thereto, and	mil wad norwes ta Wmo perligipoli, us	form on collection and the collection	frans, een di regisha	elitions, and Cons. of the
WHEREAS, No. 869, approve by the Acting Di	the above described by the Assistan rector of the Unite	ed lease is sul t Commissione ed States Geolo	oject to a certain ir of Indián Affai ogical Survey on	n Unit Agreeme rs on August 22 August 23, 1951	ent design , 1951, an ; and	nated I-Sec. nd approved
WHEREAS.	by: mesne :assign present owner of	ments heretofo	reconsummated	, WILLIAM J.	SHERR	Y of Tulsa, ease.
NOW, THE of which is here assign and conv sas, an undivided	REFORE, for and by acknowledged, ey unto MURPHY one-fourth (1/4) of to be effective fre	I in considera the said WIL Y CORPORAT	tion of TEN AND LIAM J. SHERRY ION, a Louisiana interest in and	MORE dollars Y does hereby b - Corporation, o to the lease he	(\$10.00) argain, s f El Dor reinabov	, the receipt ell, transfer, ado, Arkan- e described,
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On this	best magic abbet	<u>0811.019</u> 1954 (00 669 (2011) 17874	WILL	IAM J. SHERR	Frances	7 (T2') Special values Decambe
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STATE OF	e care e co e care a care e					•

ADAPTED FROM FORM 5-1548

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF INDIAN AFFAIRS

Contract No. 1-37-ind-12897 Our Lease No. 3858

ASSIGNMENT OF MINING LEASE

	, entered into by and	between Birdie Leste	r Vence and
Leroy Vance, w	rife and husband		, lessors,
nd C. H. MURPHY,	JR., lessee, covering the following	described lands in the Fort I	Peck Indian Reservation in the
State of Montana, Co	ounty of Roosevelt:		•
	Township 28 North, Ra Sec. 10: -NW/4; W/		
	Sec. 15: W/2 NW/4 Sec. 21: SE/4 NE/		4.
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206 60807

LEASE No. 17777 (78)

5-154 e (August 1961)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF INDIAN AFFAIRS

CONTRACT No. 1-37-Ind-12897

ASSIGNMENT OF MINING LEASE

WHEREAS, the Secretary	of the Interior or his author	ized representative has heretofore	approved
oil and gas	mining lease, dated	approved July 31	., 1950.,
entered into by and between	Birdie Lester Vance and	Leroy Vance, wife and husbar	nd lessor,
and	C. H. Murphy, Jr.		, lessee,
covering the following-describ	ped lands in the	Fort Peck Indian Reservation ame of Reservation, Pueblo, Nation, etc., as needed)	<u>n</u>
	Montana, County of Roose		
	Township 28 North, Rang	e 51 East M.P.M.	**********
	Section 10: SW/4, W/2	SW/4	
	Section 15: W/2 NW/4		
	Section 21: SE/4 NE/4		
Now, THEREFORE, for an	d in consideration of		
Ten and more	dollars (\$ 10.00), the receipt of which is hereby	acknowl-
the owner of the above-descri	bed lease, hereby bargains, sell	s, transfers, assigns, and conveys _	·
all of their (50%)		right, title, and interest in and to	said lease,
	·		
subject to the approval of the	e Secretary of the Interior or h	is authorized representative to	******
		of 717 Sevent	
		rom date of approval hereby by the	
of the Interior or his authori			
		sethand and seal, this	20th
day of Danuary	, 19_82	·	
ATTEST OF		PLACIDFOIL COMPANY	
Adult LL	la-	Chl Fram	
PAUL W. HICKS, SE	CRETARY	G. D. BROWN, PRESIDEN	[]

(OVER)

#42

5 =5 4 2 9 (Attgrast 1951)

: UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF INDIAN AFFAIRS

CONTRACT No. 1-37 Ind-12897

ASSIGNMENT OF MINING LEASE

WHEREAS, th	e Secretary of the Interior or his author	orized representative has heretofore a	proved
Oil and Gas	mining lease, dated	July 31	19.50
entered into by ar	nd between Birdie Lester Vance ar	nd Leroy Vance, wife and husband	lessor,
and	C. II. Murphy, J	r	, lessee,
covering the follow	wing-described lands in the Fort Per	ck Indian Reservation	
in the State of		hame of Reservation, Pueno, Nation, etc., as needed)	
		et M.P.M.	·
·.	Section 10: NW/4, W/2 SW/4	·	
	Section 15: W/2 NW/4		
	Section 21: SE/4 NE/4		
Now, There	FORE, for and in consideration of	Ten and more	
	dollars (\$ 10.00	•	acknowl-
edged, the said_	Partnership Properties Co.		
the owner of the	above-described lease, hereby bargains, s	ells, transfers, assigns, and conveys	
all of its		right, title, and interest in and to sa	id lease,
			-
subject to the an	proval of the Secretary of the Interior or	r his authorized representative to Fair	way
	87.5%, TPEX Exploration, Inc		
	do 80401 Said assignment to be effectiv		
	his authorized representative.		
	WHEREOF, the said assignor has hereun	to set MAS hand and seal, this	15/h
day of Jan		PARTMERSHIP PROPERTIES, CO.	
		By I Solled	•
		Charles E. Holmes	
		Attorney-in-fact	
10-11663-6	(OVER)	THE	-,

206] 60807

LEASE No. 17777(78)

5-154 e (August 1981)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF INDIAN AFFAIRS

CONTRACT No. 1-37-Ind-12897

ASSIGNMENT OF MINING LEASE

WHEREAS, the Secretar	y of the Interior or his a	uthorized representative has heretofore a	pproved
OIL AND GAS	mining lease, dated	July 31	1950.,
ntered into by and between	Birdie Lester Vance a	and Leroy Vance, husband and wife	, lessor,
nd	C. H. MURPHY,	JR.	., lessee,
overing the following-descr	ibed lands in theFOR	T PECK INDIAN RESERVATION Insert name of Reservation, Pueblo, Nation, etc., as needed)	
		Insert name of Reservation, Pueblo, Nation, etc., as needed)	
	28 North, Range 51 I		
Section	10: NW/4, W/2 SW/4		
•		4	
Section			
		Ten and more	
), the receipt of which is hereby	
dged, the said FAIRWA	Y RESOURCES, INC.		
he owner of the above-descr	ibed lease, hereby bargains	s, sells, transfers, assigns, and conveys	146044444444444
ALL OF	ITS	right, title, and interest in and to s	aid lease,
	G I GIL Tukuda		
_		r or his authorized representative to	
WELLST	AR CORPORATION	, of 9704 State	Highway
Platteville, CO 80651	Said assignment to be effec	tive from date of approval hereby by the	Secretary
of the Interior or his author	rized representative.		
Million Personal Commence		eunto set <u>his</u> hand and seal, this	16th
	.`		
ay of O & SEPTEMBER	, 19 <u>.86</u>	FAIRWAY RESOURCES, INC.	
TTEST: G	•	By: Shed Meden	
Ward Park	nan	Steven A. Roitman, Presid	lent
Dawid Rottman, Secreta	ry	greated in more of bring to be	N.A.
or areas that	(OVER	R)	-

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UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF INDIAN AFFAIRS

LEASE NO.	3858
CONTRACT NO.	1-3712897

206]]60807

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BREAU OF INDIAN AFFAIRS

BREAU OF INDIAN AFFAIRS

BUREAU OF INDIAN AFFAIRS

BUREAU OF INDIAN AFFAIRS

WHEREAS,	the Secretary of the Inte	rior or his authorized r		
Oil and G			representative has heret	ofore approved
	as mining			
entered into by	and between Birdi			
and C. H.	Murphy, Jr.			lessee.
covering the fo	llowing-described lands in	the FOIL PECK K	leservation, Pueblo, Nation, etc., as	needed)
in the State of .	Montana		· · · · · · · · · · · · · · · · · · ·	
	Township 28 North	, Range 51 East	•	
	Section 10: $NW_{\frac{1}{4}}^{\frac{1}{4}}$, Section 15: $W_{\frac{1}{2}}^{\frac{1}{2}}NW_{\frac{1}{4}}^{\frac{1}{4}}$	W25W2	· · · · · · · · · · · · · · · · · · ·	
	Section 21: SE ¹ / ₄ NE	14		
1. 1	s 2.		· · · ·	
•	.,			
Now, The	REFORE, for and in conside	eration of Ten dol	lars and other v	aluable
CONSTRUCTA	ciondoll	lars (\$ 10.00),	the receipt of which is i	iereby acknowl-
edged, the said	Wellstar Co	orporation		
	· · · · · · · · · · · · · · · · · · ·			
•	e above-described lease, he	ereby bargains, sells, tra	nsfers, assigns, and conv	/еув
all of it	S	righ	t, title, and interest in a	nd to said lease,
	•	_		
•		•	•	
		of the Interior or his suf	haviand ununeroutation t	
subject to the	approval of the Secretary	of the litterior of this aut	norized representative t	o
•				
Murphy Oi	1 USA, Inc. 71730			
•	1 USA, Inc.			PeachStreet
Murphy Oi	1 USA, Inc.	ent to be effective from (, of .200	PeachStreet
Murphy Oi El Dorado of the Interior	1 USA, Inc. 71730 AR Said assignm	ent to be effective from o	date of approval hereby	PeachStreet by the Secretary
Murphy Oi El Dorado of the Interior	1 USA, Inc. 71730 AR Said assignm or his authorized represen	ent to be effective from o	date of approval hereby	PeachStreet by the Secretary
Murphy Oi El Dorado of the Interior IN WITNE	1 USA, Inc. 71730 AR Said assignm or his authorized represen	nent to be effective from ontative. ignor has hereunto set	date of approval hereby	PeachStreet by the Secretary
Murphy Oi El Dorado of the Interior IN WITNE	1 USA, Inc. 71730 AR Said assignm or his authorized represen	nent to be effective from ontative. ignor has hereunto set	date of approval hereby hais hand and seal	PeachStreet by the Secretary
Murphy Oi El Dorado of the Interior IN WITNE	1 USA, Inc. 71730 AR Said assignm or his authorized represen	nent to be effective from ontative. Ignor has hereunto set	date of approval hereby his hand and seal	Peach Street by the Secretary t, this 1980
Murphy Oi El Dorado of the Interior IN WITNE	1 USA, Inc. 71730 AR Said assignm or his authorized represen	nent to be effective from ontative. Ignor has hereunto set	date of approval hereby hais hand and seal	Peach Street by the Secretary t, this 1980
Murphy Oi El Dorado of the Interior IN WITNE	1 USA, Inc. 71730 AR Said assignm or his authorized represen	nent to be effective from ontative. Ignor has hereunto set	date of approval hereby his hand and seal	Peach Street by the Secretary t, this

5-154 e (August 1961)

UNITED STATES CONTRACT NO DEPARTMENT OF THE INTERIOR BUREAU OF INDIAN AFFAIRS

CONTRACT No. I .. 37.128.9.7...

206 60807

ASSIGNMENT OF MINING LEASE

•	f the Interior or his authorized re		
Oil and Gas	mining lease, dated July 3	31,	, 19 <u>50</u>
itered into by and between	Birdie Lester Vance et	ux	, lessor,
d C. H. Murphy, Jr		to a page of the second	, lessee,
		•	
vering the following-describe	I lands in the Fort Peck R	eservation, Pueblo, Nation, etc., as need	ed)
the State of Monta	na		
TOWNSHIP	K NOTTO RADGE SI PAST	·	
Section 10	: NW ¹ / ₄ , W ¹ / ₂ SW ¹ / ₄		· · · · · · · · · · · · · · · · · · ·
Section 13	: $NW_{\frac{1}{4}}^{\frac{1}{4}}$, $W_{\frac{1}{2}}^{\frac{1}{2}}SW_{\frac{1}{4}}^{\frac{1}{4}}$: $SE_{\frac{1}{4}}^{\frac{1}{4}}NE_{\frac{1}{4}}^{\frac{1}{4}}$	and ye was pagagained as the	
	• 2		
To Avidant Constant		· · · · · · · · · · · · · · · · · · ·	
	in consideration of Ten doll	lars and other val	uable
consideration	dollars (\$ 10.00), t	he receipt of which is here	by acknowl-
dged, the said TPEX Explor	rtion, Inc.		
he owner of the above-describ	ed lease, hereby bargains, sells, tran	isfers, assigns, and convey	3
· · · · · · · · · · · · · · · · · · ·	•	••	:.
all of its	right	t, title, and interest in and	to said lease,
	•		
		•	•
ubject to the approval of the	Secretary of the Interior or his aut	horized representative to	·····
Murphy Oil USA. Inc		of 200 Pa	aah Ctmaa
71730	'	, VI .ZUUEE.	acuətree
El Dorado, AR Sa	d assignment to be effective from d	ate of approval hereby by	the Secretary
	•		
of the Interior or his authoriz	d representative.	•	
IN WITNESS WHEREOF, th	e said assignor has hereunto set	his hand and seal, th	nis 23rd
day of Managang	, 19. <i>§Z</i> 	Exploration Inc.	
10 POR	By:	that I tra	um
SEAL	Hunt (OVER)	er S. Swanson, Presid	lent

Harold molane

A.F.E. No. 54-18

AUTHORITY FOR EXPENDITURE MURPHY COMPORATION - EAST POPLAR UNIT NO. 32 SW HE Sec. 15, Twp. 28N., Rge. 51E., Roosevelt Co., Montana

			
WELL DRILLING & CONSTRUCTION EXPENSE:	TO CSG. PT.	COMP. & EQUIP.	TOTAL COST
Drilling: Footage - 5900' @ \$7.50/ft.	\$ Lu, 250	8	8 44,250
Daywork - 4 days & 2 days @			
\$900/day	3,600	1,800	5,400
Loc. survey, permit & prep.	300	•	300
Roads, fences, cattleguard, etc.	200	300	500
Mud mat. & chem., incl. oil & gas	4,500		4,500
Drilling bits, baskets, etc.	•	200	200
Cementing casing	2,050	950	3,000
Coring materials & services	1,000		1,000
Testing services, incl. swabbing	350	125	475
Other logs, surveys & analyses	1,400	650	2,050
Perforating services		600	600
Hydrafrac, acidize, etc. incl. oil		2,200	2,200
Ploat equip., centralizers, etc.	135	250	375
Trucking, welding & other labor	500	600	1,100
Supervision & Miscellaneous	1,500	750	2,250
Total Est. Well Drlg. & Const. Exp.	59,775	8,425	68,200
WELL EQUIPMENT COSTS:			
Casing: 1000' of 9-5/8" O.D.	3,800		3,800
Casing: 6000' of 5-1/2" U.D.		10,475	10,475
Tubing: 6000' of 2-3/8" 0.D.		3,700	3,700
Casing head & connections	300	- •	300
Xmas tree & connections		1,100	1,100
Total Est. Well Equip. Costs	4,100	15,275	19,375
Total Est. Cost of Well	63,875	23,700	87,575
LEASE EQUIPMENT:			
		3 000	3 000
Flow lines, installed		1,200	1,200
Other line pipe, valves & fittings		700	· 100
Trucking, welding & other labor		800	800
Total Est. Cost of Lease Equip.		2,400	2,400
TOTAL EST. COST OF WELL & LEASE EQUIP.	\$ 63,875	\$ 26,100	\$ 89,975

APPORTIONMENT OF TOTAL ESTIMATED COSTS

APPROVAL OF EXPENDITURE.

Production Department	Approved .
Requested by	
Date	Ву
Approved by	
	Date
Executive Department	
Approved by	
Date	

SPILL PREVENTION CONTROL AND COUNTERMEASURE PLAN

East Poplar Unit H Battery and Wells EPU Nos. 22, 32, 55, 101, & 104

The East Poplar Unit H Battery and the wells producing into the battery, EPU Nos. 22,32,55,101, & 104, are onshore production facilities located in Roosevelt County, Montana, in the East Poplar Unit Oil Field. The field is about 6 miles Northeast of Poplar, Montana, in Townships 28 and 29 North and Ranges 50 and 51 East.

The operator of the East Poplar Unit H Lease is Murphy Oil Corporation located at P. O. Box 547, Poplar, Montana 59255. The corporate headquarters are at 200 Jefferson Avenue, El Dorado, Arkansas, 71730.

The battery consists of a 8' x 27' vertical separator, a circulating pump with appropriate lines, and two 300 barrel steel welded tanks. The tanks are vented to the atmosphere and have unrestricted 4" overflow lines between tanks. An earthen pit of about 8,000 barrels capacity is located at the tank battery into which the separator or tanks may be emptied if needed for fluid storage.

All five wells flow and do not need well cellars or overflow pits.

The field flow lines and the well casing of each well are cathodically protected. The equipment is in excellent operating condition and there is no reasonable likelihood of a discharge or spill event.

The facilities are about 3.0 miles from Poplar River. The terrain dips gently West. The soil is sandy and the fields are under cultivation. Because of the distance to the river, the type of soil, and the terrain the 8,000 barrel pit at the tank battery is sufficient secondary containment for these facilities.

East Poplar Unit H Battery and Wells EPU Nos. 22, 32, 55, 101, & 104

The East Poplar Unit H Battery and the wells producing into the battery, EPU 22, 32, 55, 101, & 104, are onshore production facilities located in Roosevelt County, Montana, in the East Poplar Unit Oil Field. The battery consists of a 8' x 27' vertical separator, a circulating pump with appropriate lines, and two 300 barrel welded well steel tanks. An earthen pit of about 8,000 barrel capacity is located at the tank battery into which the separator or tanks may be emptied if needed for fluid storage.

The field is about 6 miles Northeast of Poplar, Montana, in Townships 28 and 29 North and Ranges 50 and 51 East.

The operator of the East Poplar Unit H Lease is Murphy Oil Corporation located at P.O. Box 547, Poplar, Montana 59255. The corporation headquarters are at 200 Jefferson Avenue, El Dorado, Arkansas 71730.

The foreman, Mr. Gerald Hagadone, is responsible for oil spill prevention at this facility. On each trip to the lease the pumper makes a visual inspection of all facilities and reports any malfunction to the foreman, Mr. Gerald Hagadone, and notes this malfunction on the ten day gauge report. There has been no reportable oil Spill Event during the twelve months prior to January 10, 1974.

The equipment is in excellent operating condition and there is no reasonable likelihood of a discharge or spill event.

The field flow lines and well casing of each well are cathodically protected.

Personnel are properly instructed in the operation and maintenance of equipment to prevent oil discharges, and applicable pollution control laws, rules and regulations. Each employee is given these instructions by the field foreman when they are employed. Scheduled prevention briefings for the operating personnel are conducted frequently enough to assure adequate understanding of the SPCC Plan. The procedures are reviewed every six months by the field foreman with each employee. When changes occur in procedures, each employee is informed.

Fluid in the 8,000 barrel storage pit is pumped to the salt water disposal unit if the water is brackish as determined by chloride tests. If only fresh water is contained in the pit it is disposed of by placing on lease roads to control dust and compact the roads. Any oil in the pit is pumped back through the separator with the water being sent to the disposal well. Oil skims are burned by state permits. There are no outlets from the storage pit and all fluids must be pumped out.

The two 300 barrel tanks are steel and are welded construction. The tanks are vented to the atmosphere and have unrestricted 4" overflow lines between tanks.

All five wells flow and do not need well cellars or overflow pits.

The facilities are about 3.0 miles from the Poplar River. The terrain dips gently West. The soil is sandy and the fields are under cultivation. Because of the distance to the river, the type of soil, and the terrain the 8,000 barrel pit at the tank battery is sufficient secondary containment for these facilities.

The tanks are observed daily by the pumper. Periodically, the foreman checks the entire tank battery and producing wells closely. If any trouble is suspected, the facility is shut down, the tanks and/or separator are emptied and cleaned. The facility is then thoroughly inspected by service company personnel, repairs are made if needed and the unit is placed back into service.

Produced salt water is pumped to a field gathering system for injection into a salt water disposal well. The above ground facilities are observed daily by the pumper and inspected by the foreman closely on his visits to the lease.

All salt water disposal flowlines are cement asbestos lines. These lines are buried and the surface is observed daily by the pumper.

MANAGEMENT APPROVAL

This	SPCC	Plan	will	be	implemented	as	herein	described.
------	------	------	------	----	-------------	----	--------	------------

Signature	
Name	
Title	

CERTIFICATION

I hereby certify that I have examined the facility, and being familiar with the provisions of 40 CFR, Part 112, attest that this SPCC Plan has been prepared in accordance with good engineering practices.

		Printed Name Of Registered Professional Enginee
(Seal)	•	Signature Of Registered Professional Engineer
Date		Registration No. State

Contingency Plans For An Oil Discharge

East Poplar Unit H Battery and Wells EPU Nos. 22, 32, 55, 101, & 104

The field is visited twice daily by the pumper. Visual inspection is made on each facility on each visit to determine if any malfunction is occurring. The most likely potential oil discharges are checked thoroughly. Periodically, the field foreman, Mr. Gerald Hagadone, will conduct a close check of the entire facility.

4

The pumpers, Mr. Ferdinand Charette and Mr. Robert Atkinson, have been instructed in the operations and maintenance of equipment to prevent oil and water discharges and informed of the applicable pollution control laws, rules and regulations. If an oil discharge occurs, the pumper will immediately close the proper valves and/or shut down the production facility to stop the discharge. He will then call Mr. Gerald Hagadone who will in turn inform Mr. Bill Brown, District Superintendent. If needed, the proper state and federal agencies will be notified by Mr. Brown. The discharged oil will be reclaimed or disposed of by approved engineering procedures and in accordance to law.

In the event discharged oil collects on standing water such as a stock poid or rain water standing in a low spot, the oil will be pumped into a tank truck. The skim of oil left on the water will be removed by an oil skimmer owned by Murphy Oil Corporation. The skimmer can be towed to the field within an hours time.

If the discharge is in excess of 50 barrels of oil, the Montana Department of Health and Environmental Sciences in Helena will be notified by Mr. Brown.

If a Spill Event occurs as defined by federal law, the Environmental Protection Agency in Denver, Colorado will be notified by Mr. Brown.

Telephone numbers and personnel to be notified in case of an oil discharge are as follows:

Phone Numbers as listed on other copies will be included on final copy.

A.F.E. No. 0-1508-10

AUTHORITY FOR EXPENDITURE MURPHY OIL CORPORATION - EAST POPLAR UNIT NO. 32 SW NE Section 15, T28N, R51E, Roosevelt County, Montana (Replace Part Of Flowline)

A.F.E. No. 0-1508-10 is to confirm the estimated cost to replace part of the flowline.

PRESENT STATUS: Well pumping at the rate of 132 BFPD 11 BOPD 121 BWPD 92% BS&W (April, 1970 well test).

PROPOSAL: Change out 2000' of 2" flowline

JUSTIFICATION: 10 leaks have occured in the flowline since January and all of them have been in the middle of Wheat fields, causing excessive land damage.

ESTIMATED COST

1974' of 2-3/8", J-55, 4.70#, Rg. 2, 8rd. thrd. EUE Tubing, Condition 3	\$	
Haul, Wrap, Lay and Tie in Flowline	ş	447.00
Ditch & Backfill		280.00
Plicoflex & Primer	•	100.00
Misc. Labor, Material and Supervision	•	75.00
TOTAL ESTIMATED COST	\$1	,297.00

APPORTIONMENT OF TOTAL ESTIMATED COST

Murphy Oil Corporation	31.448470%	\$ 408.00
Placid Oil Company	33.545035%	\$ 435.00
Humble Oil & Refining Company	16.335860%	\$ 212.00
Phillips Petroleum Company	16.335860%	\$ 212.00
Munoco Company	2.096565%	\$ 27.00
C. F. Lundgren	. 238210%	\$ 3.00

APPROVAL OF EXPENDITURE

Requested by:

APPROVED:

MTJ/sb May 14, 1970

36.00

4.00

. A.F.E. No. 0-1509-10

AUTHORITY FOR EXPENDITURE MURPHY OIL CORPORATION - EAST POPLAR UNIT NO. 32 SW NE Section 15, T28N, R51E, Roosevelt County, Montana (Change Rod String)

A.F.E. No. 0-1509-10 is to confirm the estimated cost to change rods.

PRESENT STATUS: Well pumping at the rate of 132 BFPD 11 BOPD 121 BWPD 92% BS&W (April, 1970 well test).

JUSTIFICATION: This well has parted four times since December, 1969.

ESTIMATED COST

10 Hrs. Pulling Unit Time . 2875' Condition 2 5/8" Rods and 26 Misc. Labor, Material and Supervis Credit for rods from well TOTAL ESTIMATED COST .	75' Condition 2 3/4" Rods ion	\$ 365.00 \$1,581.00 \$ 291.00 (\$ 500.00) \$1,737.00
APPORTION	ENT OF TOTAL ESTIMATED COST	
Murphy Oil Corporation Placid Oil Company Humble Oil and Refining Company Phillips Petroleum Company Munoco Company	31.448470% 33.545035% 16.335860% 16.335860% 2.096565%	\$ 546.00 \$ 583.00 \$ 284.00 \$ 284.00 \$ 36.00

APPROVAL OF EXPENDITURE

.238210%

Requested by:

C. F. Lundgren

APPROVED:

W. J. Thorncon

MTJ/sb May 14, 1970

AUTHORITY FOR EXPENDITURE CORPORATION - EAST POPLAR UNIT, NO. SW NE Section T28N, R51E, Roosevelt County, Montana (Acidize)

PROPOSAL AND JUSTIFICATION: It is proposed to acidize this well with 3000 gallons of 28% retarded acid.

This well was completed in 1954 from the C-3 and treated with 4000 gallons of etching acid. Production has decreased from 180 BFPD 75% BS&W 45 BOPD 135 BWPD since completion to 88 BFPD 5 BOPD 83 BWPD 94% BS&W, January well test. At the present rate this well is uneconomical and before abandonment a stimulation job should be attempted. The core analysis and D.S.T.'s show nothing in the A or B Zones, which are low to any of the surrounding wells. Payout for this job assuming a 15 BOPD increase would be 91 days.

ESTIMATED COST

Pulling Unit, 15 Hrs.	\$ 600
Packer Rental	. 750
3000 Gallons of Acid and Services	3,000
Misc. Labor, Material and Trucking	200
Total Estimated Cost	\$ 4,550

APPORTIONMENT OF TOTAL ESTIMATED COST

Murphy Oil Corporation	31.448470%	\$ 1,432
Placid Oil Company	33.545035%	1,526
Exxon Company, U.S.A.	16.335860%	743
Phillips Petroleum Company	16.335860%	743
Munoco Company	2.096565%	· 9 5
C. P. Lundgren	. 238210%	11

APPROVAL OF EXPENDITURE

Requested by:

Approved by:

WGB/sb February 7, 1973

> Date Job Completed - 3-11-73 Approximate Cost \$4565 By W.G. Brown

This job went as planned. The pulling unit and misc. labor was a little over the A.F.E.'d cost but the Baker tickets and Dowell tickets were a little under A.F.E.'d cost. Production has not come up to expectations but will pump for 30 days and reevaluate WGB

Bill Brown

A.F.E. No. 3-1534-10

AUTHORITY FOR EXPENDITURE MURPHY OIL CORPORATION - EAST POPLAR UNIT NO. 32 Section 15, T28N, R51E, Roosevelt County, Montana (Perforate the A-Zone)

PROPOSAL and JUSTIFICATION: It is proposed to set a bridge plug and a sack of cement over the C-Zone and perforate the A-2 and A-3 Zones.

July well test indicate that this well is producing at the rate of 104 BPPD 4 BOPD 100 BWPD 96% BS&W which is uneconomical. Prior to abandoning, this well should be tested in the A-Zones. A "Blow-Out" was encountered while drilling at 5617' and was described as Madison oil in character. The depth of 5617' is below the A-Zone but above the B-Zone indicating any oil show would have to be out of the A-Zone. Other A-Zone wells in this area, namely East Poplar Unit No. 1, 3, and 24, have each produced better than 100,000 BO.

EST	IMAI	ED.	COST

Pulling Unit, 30 Hours				•	\$ 1,200
Wireline Services, B.P. and Cement		•			1,250
3000 Gallons of 28% Acid, if needed	•		•		4,000
Packer Repair				•	500
Misc. Labor, Material and Trucking					500
Total Estimated Cost	•			•	\$ 7,450

APPORTIONMENT OF TOTAL ESTIMATED COST

Murphy Oil Corporation	31.448470%		\$:	2,343
Placid Oil Company	33.545035%		\$:	2,499
Exxon Company, U.S.A.	16.335860%		\$	1,217
Phillips Petroleum Company	16.335860%		\$:	1,217
Munoco Company	2.096565%		\$	156
C.FLundgren	. 238210%	. •	 \$	18

APPROVAL OF EXPENDITURE

Requested by:

Approved by:

Date Job Compost & 12/26/23 Approx Cost: #9640.00

WGB/ab October 16, 1973

MURPHY OIL CORPORATION - EAST POPLAR UNIT NO. 32 SW NE Section 15, T28N, R51E, Roosevelt County, Montana (Supplement No. 1 - Perforate the A-Zone)

This A.F.E. was overspent by \$2,194. Trouble was encountered while hydrotesting the tubing. The rods were badly worn and had to be broken by hand. A joint of tubing was crimped, the tubing had to be pulled and the joint of tubing replaced before the perforating gun could be run. These two facts caused the pulling unit cost to run quite high. The cost of logging this well was not included in the original A.F.E. Misc. cost for this A.F.E. was also overspent. Trouble was encountered when the well started flowing and had to be killed in order to finish the completion work. Also a hydrotest job was done which was not included in the original A.F.E.

EST	IMA	TED	C	OST	

	Original A,F.E.	Actual Expense	Supplement No. 1
Pulling Unit, 30 Hours	\$ 1,200	\$ 2,613	\$ 1,413
Wireline Services, B.P. & Cement	1,250	2,814	1,564
3000 Gallons of 28% Acid	4,000	3,200	(800)
Packer Repair	500	·	. (500)
Misc. Labor, Material and Trucking	500	1,017	517
Total Estimated Cost	\$ 7,450	\$ 9,644	\$ 2,194
	. •	•	

APPORTIONMENT OF TOTAL ESTIMATED COST

•										
Murphy Oil Corp.		31.448470%		\$ 2,343			\$ 3,033	\$	690	
Placid Oil Company	•	33.545035%		2,499	•		3,235		736	
Exxon Company, U.S.A.		16.335860%		1,217			1,575		358	
-Phillips Pet. Co.		16.335860%		1,217	٠.	•	1,575.		358	
Munoco Company		2.096565%		156		•	202		46	
C. F. Lundgren		.238210%	·	18			24	•	6	

APPROVAL OF EXPENDITURE

Requested by:

Approved by:

W G Brown

Para A 18 SI

1/31/79

. +

Out Job Complet 12/21/73

Approximate Cost 2,194:00

By G. Hagoline BBS

sb January 14, 1974

A.F.E. No. 0-1523-10

MURPHY OIL CORPORATION AUTHORITY FOR EXPENDITURE - EAST POPLAR UNIT NO. 32 SW SE Section 31, T29N, R51E, Roosevelt County, Montana

Currently open in A-2 and A-3 (5480-96) with last reliable production test being 4 BOPD and 351 BWPD flowing on 15/64 choke with 250# tubing pressure (8-3-75).

The well is T.A. due to bad flowline. The cost of replacing the 2700' of 2'' flowline would pay out in approximately 2-1/2 months at above production rate.

It is proposed to replace the flowline with 2" fiberglass and put well back on production.

ESTIMATED COST

2700' of 2" Silver Thread Fiberglass	\$ 4,650
Roustabout Labor to lay and bury line (3' deep)	\$ 2,700
Supervision and Misc.	\$ 300
Total Estimated Cost	\$ 7,650

APPORTIONMENT OF TOTAL ESTIMATED COST

Murphy Oil Corporation	31.448470%	\$ 2,406
Placid Oil Company	33.545035%	\$ 2,566
Exxon Company, U.S.A.	16.335860%	\$ 1,250
Phillips Petroleum Company	16.335860%	\$ 1,250
Munoco Company	2.096565%	\$ 160
C. F. Lundgren	. 238210%	\$ 18

APPROVAL OF EXPENDITURE

Requested by:

Approved by:

Rilly C Melear

Data

A. W. Simpson

appropriate last

BGM/sb June 6, 1980

OPO)

MURPHY EXPLORATION & PRODUCTION CO.
AUTHORITY FOR EXPENDITURE
EAST POPLAR UNIT NO. 32
SW NE SECTION 15, T28N, R51E
ROOSEVELT COUNTY, MONTANA

PROPOSAL & JUSTIFICATION:

This well was completed in the C-2 or C-3 Zone 5790'-5800'. The last test on this well was 3 BOPD and 63 BWPD. A CIBP was set at 5770'. The A Zones were perforated 5480'-96' and produced 100% water, they are still open. The C-2 was cored to 5815'. The core looks good to 5808'.

It is proposed to drill out the CIBP at 5770', clean out the hole to 5815', perforate C-2 at 5803'-08', set a Model D wireline packer at 5801', swab test and acidize, if necessary.

ESTIMATED COST

Workover Rig	\$	8,000
Wireline and Packer		4,200
Acid		1,500
Hydrotest		1,200
Supervision & Miscellaneous		2,100
Total Estimated Cost	\$!	17,000

APPORTIONMENT OF TOTAL ESTIMATED COST

Murphy Expl & Prod Co.	60.363718%	\$10,262
Doil Oil & Gas	20.965647%	3,564
Exxon Company U.S.A.	16.335860%	2,777
Munoco Company	2.096565%	356
C.F. Lundgren	.238201%	41

APPROVAL OF EXPENDITURE

Requested by:

Approved by:

Raymond Reede Date Sidney Campbell Date

PERMIT APPLICATIONS

34p 54->94 Form 3160-5 (June 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993

5. Lease Designation and Serial No.

14202564047 6. If Indian, Allonee or Tribe Name

SUNDRY NOT	CES AND REPORTS ON WELLS
orm for proposals	to drill or to deepen or reentry to a different reservo

Do not use this f

Use "APPLICATION FO	OR PERMIT—" for such proposals	Ft. Peck
SUBMI	T IN TRIPLICATE	7. If Unit or CA, Agreement Designation
I. Type of Well Signal Gas Well Gas Other		East Poplar Unit 8. Well Name and No.
2. Name of Operator Murphy Exploration & Pro	oduction Company	East Poplar Unit #32 9. API Well No.
3. Address and Telephone No. P.O. Box 547, Poplar, M. 4. Losation of Well (Footage, Sec., T., R., M., or Survey)		10. Field and Pool, or Exploratory Area East Puplar Unit
SW NE Section 15, T28N,		11. County or Parish, State Roosevelt Montana
2. CHECK APPROPRIATE BOX	(8) TO INDICATE NATURE OF NOTICE	, REPORT, OR OTHER DATA
TYPE OF SURMISSION	TYPE OF	ACTION

2.	CHECK APPROPRIATE BOX(8)	TO INDICATE NATURE OF NOTICE	, REPORT, OR OTHER DATA
	TYPE OF SUBMISSION	TYPE OF	ACTION
	Notice of Intent	Abandonmest	Change of Plans
	Subsequent Report	Recompletion Plugging Back	Non-Routine Fracturing
	Final Abendonment Notice	Casing Repair Altering Casing	Water Shut-Off Conversion to Injection
		Other	Dispose Water (Note: Report results of authiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

EPU No. 32 was producing from the A-2 and A-3 Zone 5480'-5496'. It is proposed to set a CIBP at 5400' and pressure test the casing to 300#. We would like to save this well bore while we evaluate some D.O.C. work being done in the area.



14. I hereby copify that the foregoing is true and co	correct ESC Title	District Manager	Date	1-14-94
(This space for Fedora or State office lace)	Sucan Title	ADM - Minerals	Date	JAN 1 9 1994
Approved by Conditions of Approval. If any:				See Attached for Coufficient of Approval

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Murphy Exploration & Production Company Indian Lease 14-20-256-4047 East Poplar Unit No. 32 SW NE Sec. 15, T28N-R51E Roosevelt County, Montana

CONDITIONS OF APPROVAL

- 1. Within 30 days of completing the pressure test on this well you must report the results to this office via Sundry Notice. Please include the actual setting depth of the CIBP, the maximum pressure of the test, length of the test (a minimum of 30 min.), and the pressure loss, if any, observed during the test.
- 2. Upon successful completion of the casing pressure test, you may apply for a temporary abandoned status (TA) for this well for a period not to exceed one year. Your request for TA status should be included with the Sundry Notice required in #1, above.

Form 3160-5 (June 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPRO	OYED
Budger Bureau No.	1004-0135
Expires: March	11, 1993

Expires: March 31, 1993

•	Lci	УC	D	CX	gn	uli	on	BC	W	Script	Νυ
_		_	_	_	_	_	_	_	_	_	

14202564047 ---SUNDRY NOTICES AND REPORTS ON WELLS 6. If Indian, Allottee or Tribe Name Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals Peck 7. If Unit or CA, Agreement Designation SUBMIT IN TRIPLICATE 1. Type of Well East Poplar Unit Well Gas Well 8. Well Name and No. Other EPU No. 32 9. API Well No. Murphy Exploration & Production Company 05024 P.O. Box 547, Poplar, MT 59255

Location of Well (Footage, Sec., T., R., M., or Survey Description) 10. Field and Pool, or Exploratory Area 406-768-3612) East Poplar Unit 1.1. County or Parish, State SW NE Section 15, T28N, R51E Roosevelt Montana 12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION Notice of Intent Abandonment Change of Plans Recompletion New Construction Subsequent Report Plugging Back Non-Routine Fracturing Casing Repair Water Shut-Off Final Abandonment Notice Altering Casing Conversion to Injection Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Lug form.) 13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

10-05-94 Move in rig up pulling unit. Pump 100 barrels corrosion inhibited 10.2# water down casing, 20 barrels down the tubing. Pull tubing and lay down.

10-06-94 Rig up Penkota Wireline run in to 5400' and set 5½" B.P. Rig down.

10-23-94 Pressure casing to 500#'s held for 30 minutes.



Signed Common Service Signed Common Signed Common Signed Common Service Signed Service Signed Service Signed Service S	Title District Manager	Date 10-28-94
(This space for Federal or State office use) Approved by Ary Club Spence Conditions of approval, it any:	ADM - Minerals	Date NOV 1 1994
Conditions of approval, if any:		Sea Attached for Conditions of Approval

Title 18 U.S.C. Section 1001, makes it a crime for any person knowlngly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Murphy Exploration & Production Company Indian Lease 14-20-256-4047 East Poplar Unit Well No. 32 SW NE Sec. 15, T28N-R51E Roosevelt County, Montana

CONDITIONS OF APPROVAL

- 1. TA status for this well is granted effective November 1, 1994 and will expire November 1, 1995 in accordance with 43 CFR 3162.3-4(c).
- 2. Approval to extend TA status beyond the expiration date must be requested in writing on or before November 1, 1995.
- 3. Monthly Reports of Operations must continue to be submitted to the MMS. The status of the well must be reported as TA, and the volume of fluids produced should be reported as zero (0) until the well is returned to production.

Form 3160-5 (June 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR BURBAU OF LAND MANAGEMENT

PORM APPROVED

Budget Bureau No. 1004-0135

Expires: March 31, 1993

5. Lease Designation and Serial No.

14202564047

SUMBRY MATISES	AND DEPORTS ON WELLS	1420220404/
Do not use this form for proposals to dr	AND REPORTS ON WELLS III or to deepen or reentry to a different reservoir. R PERMIT—" for such proposals	6. If Indian, Allottee or Tribe Name Ft. Peck
	IN TRIPLICATE	7. If Unit or CA, Agreement Designation
1. Type of Well		East Poplar Unit
		8. Well Name and No.
2. Name of Operator		EPU No. 32
Murphy Exploration & Pro	duction Company	9. API Well No.
3. Address and Telephone No.		25-085-05024
P.O. Box 547, Poplar, MT		10. Field and Pool, or Exploratory Area
4. Location of Well (Footage, Sec., T., R., M., or Survey D	escription)	East Poplar Unit
SW NE Section 15, T28N,	R51E	11. County of Parish, State Roostvelt
		Montana · :
2 CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPO	ORT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION	·
Notice of Intent	Abandonment	Change of Plans
_	Recompletion	New Construction
Subsequent Report	Plugging Back	Non-Routine Fracturing
	Casing Repair	Water Shut-Off
Final Abandonment Notice	Altering Casing	Conversion to Injection
	X Cuber Temporarily aband	don Dispose Water

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

We are in the process of running some 3-D seismographic in the East Poplar Unit and would like to retain the status of temporarily abandoned until the seismograph has been completed and evaluated.



(Nata: Appear secults of multiple completion on Well-Completion or Recompletion Report and Log form.)

14. I hereby certify that the foregoing is true and correct Signed Rayman Reelle.	Title _	Distric	t Manager	Date	11-0	7/95	· ·
Approved by Conditions of approval, if any sea Attached or Conditions of Approval	Title _	Acting	ADM - Minerals	Date _	NOV	9 1995	: : :

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Murphy Exploration & Production Company Indian Lease 14-20-256-4047 EPU No. 32 SW NE Sec. 15, T28N-R51E Roosevelt County, Montana

CONDITIONS OF APPROVAL

- TA status for this well is granted effective November 9, 1995 and will expire November 9, 1996 in accordance with 43 CFR 3162.3-4(c).
- Approval to extend TA status beyond the expiration date must be requested in writing on or before November 9, 1996.
- Monthly Reports of Operations must continue to be submitted to the MMS. The status of the well must be reported as TA, and the volume of fluids produced should be reported as zero (0) until the well is returned to production.
- 4. If this well is returned to production, this office must be notified within 5 working days via Sundry Notice (Form 3160-5), or orally to be followed by a written confirmation.

Form 3160-5 (June 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.

1	A	2	n	2	5	64	1	n	Δ	7	
ı	4	~	v	~	J	U	2 '	v	4	•	

6. If Indian, Allottee or Tribe Name

SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

USE "APPLICATION FO	」Fort Peck	
SUBMIT	7. If Unit or CA, Agreement Designation	
I. Type of Well Substituting State		East Poplar Unit 8. Well Name and No.
2. Name of Operator Murphy Exploration & Pro-	duction Company	EPU No. 32 9. API Well No.
3. Address and Telephone No. P.O. Box 547, Poplar, Mt	59255 406+768-3612	25-085-05024 10. Field and Pool, or Exploratory Area
4. Location of Well (Footage, Sec., T., R., M., or Survey D	e and 1980' from the East line	East Poplar Unit 11. County or Purish, State Roosevelt Montana
12. CHECK APPROPRIATE BOX	(s) TO INDICATE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION	
Notice of Intent	Abandonment Recompletion	Change of Plans New Construction
Subsequent Report	Plugging Back Casing Repair	Non-Routine Fracturing Water Shut-Off
Final Abandonment Notice	Altering Casing Other <u>Temp</u> Abandon	Conversion to Injection Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
give subsurface locations and measured and true verti	all persinent details, and give persinent dates, including estimated date of startin cal depths for all markers and zones persinent to this work.)* this well as temporarily abando	
our drilling program has	been completed and evaluated.	
•		

	Le District Manager	Date Nov. 20, 1996
(This space for Federal or State office use)		
Approved by Till Conditions of approval, if any:	le	Date
·	, -	** , • * •

Murphy Exploration & Production Company Indian Lease I-37-IND-13056 East Poplar Unit EPU No. 65 NW SW Sec. 7, T29N-R51E Roosevelt County, Montana

CONDITIONS OF APPROVAL

- 1. TA status for this well is granted effective November 12, 1996 and will expire November 12, 1997 in accordance with 43 CFR 3162.3-4(c).
- 2. Approval to extend TA status beyond the expiration date must be requested in writing on or before November 12, 1997.
- 3. Monthly Reports of Operations must continue to be submitted to the MMS. The status of the well must be reported as TA, and the volume of fluids produced should be reported as zero (0) until the well is returned to production.
- 4. If this well is returned to production, this office must be notified within 5 working days via Sundry Notice (Form 3160-5), or orally to be followed by a written confirmation.

EPU#32

Form 3160-5 (November 1994)

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED OMB No. 1004-0135 Expires July 31, 1996

November 1994)	DEPARTMENT OF THE IN	TERIOR				Expires	July 31, 1996	
	BUREAU OF LAND MANAG	SEMENT			5. Lease Se	rial No.		
	Y NOTICES AND REPOR				1420			
Do not use th	ils form for proposals to d ell. Use Form 3160-3 (APD)	drill or to re-	enter an		1		or Tribe Name	ı
					Fort			
SUBMIT IN TR	IPLICATE - Other Instru	ctions on re	verse side				reement, Name ar	d/or No.
1. Type of Well	3						lar Unit	
Oil Well Gas Well C	J Other				8. Well Na		No.	
2. Name of Operator Murphy Explorati	on & Production	Company			9. API We			
3a Address P.O. Box 5		3b. Phone No	. (include area	code)			5024	
	59255-0547	1406+76	8-3612				r Exploratory Are	
4. Location of Well (Footage, Sec	., <i>T., R., M., or Survey Description)</i> North line and l		om +bo	Fact	11. County		lar Unit	
	tion 15, T28N, F		om the	East			t County	
Time on Mr Sec	(10tt 15, 120k, 1				Mont		,	•
12. CHECK AF	PROPRIATE BOX(ES) TO	INDICATE	NATURE C	F NOTICE, R	EPORT, O	R OTH	ER DATA	
TYPE OF SUBMISSION	·		TYPE O	FACTION				
Notice of Intent	Acidize	Deepen .	۵	Production (Star	√Resume)	O w	ater Shut-Off	
5	Alter Casing	☐ Fracture Tr	eat 🔾	Reclamation		O w	ell Integrity	•
Subsequent Report	1	New Consti	ruction 🔯	Recomplete		D .01	ther	
Final Abandonment Notice		Plug and A		Temporarily At	andon	_		
	Convert to Injection	Plug Back		Water Disposal			·	
determined that the site is ready We would 1	inal Abandonment Notices shall be for final inspection.) Like to retain the condition of t	his well	as tem		aband	oned		
i4. I hereby certify that the forego	ing is true and correct							
Name (Printed/Typed) Raymond Re		Ì	Title Distr	rict Mana	nger			
Signature Raymond A	leede		Date Janua	ary 27, 1	998			
The state of the s	THIS SPACE F	OR FEDERA				a-2614		
Approved by	meinell		Title A F			Date FE	B 2 4 199	
Conditions of approval, if any, are certify that the applicant holds leg which would entitle the applicant to	al or equitable title to those right	e does not warra	nt or Office	See Attache Conditions	d for	·	, ,	<u> </u>

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

Murphy Exploration & Production Company Indian Lease 14-20-0256-4047 EPU No. 32 SW NE Sec. 15, T28N-R51E Roosevelt County, Montana

CONDITIONS OF APPROVAL

- 1. TA status for this well is granted effective January 15, 1998 and will expire January 15, 1999 in accordance with 43 CFR 3162.3-4(c).
- 2. Approval to extend TA status beyond the expiration date must be requested in writing on or before January 15, 1999.
- 3. Monthly Reports of Operations must continue to be submitted to the MMS. The status of the well must be reported as TA, and the volume of fluids produced should be reported as zero (0) until the well is returned to production.
- 4. If this well is returned to production, this office must be notified within 5 working days via Sundry Notice (Form 3160-5), or orally to be followed by a written confirmation.

GENERAL RULES 201, 202, 213, 216, 219-2

TO OIL AND GAS CONSERVATION COMMISSION-

NOTICE

FORM BECOMES WHEN STAMPED ED BY AN AGENT PERMIT

2 1954 APR

OF THE STATE OF MONTANA BILLINGS OR SHELBY

Notice of Intention to Drill	Subsequent Report of Water Shut-off	
Notice of Intention to Change Plans	Subsequent Report of Shooting, Acidizing, Cementing	
Notice of Intention to Test Water Shut-off	Subsequent Report of Altering Casing	
Notice of Intention to Redrill or Repair Well	Subsequent Report of Redrilling or Repair	
Notice of Intention to Shoot, Acidize, or Cement	Subsequent Report of Abandonment	
Notice of Intention to Pull or Alter Casing	Supplementary Well History	XX
Notice of Intention to Abandon Well	Report of Fracturing	-
(Indicate Above by Check M	lark Nature of Report, Notice, or Other Data)	•
	March 31.	:

READ CAREFULLY

.....MONTANA.....

Section

DETAILS OF PLAN OF WORK

S. of.....N......line and....1980.....ft.

Roosevelt

28 N

(Township)

(County)

READ CAREFULLY

M.P.M.

Meridian)

East Poplar Unit

of E line of Sec. 15

51E

(Range

(Pield)

(State names of and expected depths to objective sands; show size, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work, particularly all details results Shooting, Acidizing, Fracturing).

DETAILS OF WORK RESULT

Ran 23 joints, 980.55 feet of 9 5/8 inch, J-55, 36 lbs., Range 3, 8 rd. thread American Casing. Landed 12 feet below RKB and set at 992.55 feet. Two HOWCO Centralizers at 783 and 976. Cemented with 390 sacks as follows: 130 sacks of Ideal sack cement and 260 sacks of Ideal regular bulk cement with 2% CaCl in the last 200 sacks. Plug down at 6:15 A.M., 3-24-54. Bumped plug with 800#. Circulated approximately 100 sacks of clean cement. Released pressure. okay.

Approved subject to conditions on Approved 4-2-54 reverse.	Company Murphy Corporation:
(Date) / /	By Barold mile
Title Geologist-Engineer	Title District Production Supt.
District Office Agent	Address Box 447, Poplar, Montana

NOTE:-Reports on this Form to be submitted to the District Agent for Approval in Triplicate...

GENERAL RULES 201, 202, 213, 216, 219, 233.1

TO

NOTICE!
THIS FORM BECOMES A
PERMIT WHEN STAMPED
APPROVED BY AN AGENT
OF THE COMMISSION.

OIL AND GAS CONSERVATION COMMISSION OF THE STATE OF MONTANA

BILLINGS OR SHELBY

SUNDRY NOTICES AND REPORT OF WELLS

Little Land	TES AND REPORT OF WELLS	
Notice of Intention to Drill	Subsequent Report of Water Shut-off	
Notice of Intention to Change Plans	Subsequent Report of Shooting, Acidizing, 6	Cementing
Notice of Intention to Test Water Shut-off	Subsequent Report of Altering Casing	:
Notice of Intention to Redrill or Repair Well	Subsequent Report of Redrilling or Repair	
Notice of Intention to Shoot, Acidize, or Cement	Subsequent Report of Abandonment	
Notice of Intention to Pull or Alter Casing	Supplementary Well History	xxxx
Notice of Intention to Abandon Well	Report of Practuring	·
(Indicate Above by Check	Mark Nature of Report, Notice, or Other Data)	*
·.	April	12, 19 5
Following is a { potice of intention to allow or la		
,		I-A-029305-A
. MONITANI A		
MONTANA(State)	(County)	(Field)
Well No. 32 SH NE Secti	ייי אל אי ה	TE EMDM
Well No. 25 SH NU DECTI	OR 15 (Township) (Rang	Meridian)
The well is located1980ft. $\left\{\begin{array}{c} S \\ XX \end{array}\right\}$ of	•	line of Sec15
READ CAREFULLY DETAI	S OF PLAN OF WORK	READ CAREFULLY
(State names of and expected depths to objective sands; show siz all other important proposed work, particularly all details results Sho	e, weights, and lengths of proposed casings; indicate oting, Acidizing, Fracturing).	mudding jobs, cementing points, and
. D	ETAILS OF WORK RESULT	· ·
5617' Drill stem test No. 1, stradd open $3\frac{1}{2}$ hours. Tool opened at l1:10 blow in $2\frac{1}{2}$ hours. Gas to surface in oil and 5165' of salt water. Tool w FBHFP-2503#; Hydro-3300, Bottom pac	A.M., 4-8-54, with good blow, 3 hours and 20 minutes. Recorduld not close for shut-in pres	increasing to fair vered 30' of clean ssure. IBHFP-26#;
•	APR 15	1954
ı	QIL AND GAS CONSERVATION OF THE STATE OF MONTA	DA COMMISSION.
Approved 4-15-54 (Date)	Company Murphy Cor	poration

NOTE:-Reports on this Form to be submitted to the District Agent for Approval in Triplicate.

District Office Agent

Title District Production Supt.

Poplar,

Address 'Box 447,

GENERAL RULES 201, 202, 213, 216, 219, 233.1

OT

NOTICE!
THIS FORM BECOMES A
PERMIT WHEN STAMPED
APPROVED BY AN AGENT
OF THE COMMISSION.

to a constitue of

.

RECEIVED) OIL AND GAS CONSERVATION COMMISSION OF THE STATE OF MONTANA

APR 15 1954

BILLINGS OR SHELBY

ı.	LIND GAS CONSERVATION COMMISSIDISUNDRY NOTICE THE STATE OF THE STATE O	Subsequent Report of Water Shi		<u> </u>
•	Notice of Intention to Change Plans	Subsequent Report of Shooting,		
	Notice of Intention to Test Water Shut-of?	Subsequent Report of Altering (
	Notice of Intention to Redrill or Repair Well	Subsequent Report of Redrilling		
	Notice of Intention to Shoot, Acidize, or Cement	Subsequent Report of Abandonn		·
	Notice of Intention to Pull or Alter Casing	Supplementary Well History		XXXX
	Notice of Intention to Abandon Well	Report of Fracturing		
	Trade of American to House the	Transfer of Transfer		
	(Indiante Abore by Cheek	Mark Nature of Report, Notice, or Other	Detal	
	!		April 11,	
Follov	wing is a { report of work done } on la	and leased described as follows:		H
;			BIM-A-029305-	·A 🧍
	: :			÷
•••••	MONTANA			<u> </u>
	(State)	(County)		(Field)
Well	No. 32 SW NE Section 3 (m. sec.)	15 28N .	51E	M.P.M.
	(m. sec.)	(Township)	(Range	Meridian)
The v	vell is located1980	line and 1980 # JXXX	e E line	م الله الله الله الله الله الله الله الل
The v	is locatedmxxxxx	W.	,	,;
Thé e	levation of the derrick floor above the sea level is	2088 K.B.	1 .	й :
REAL	D CAREFULLY DETAI	LS OF PLAN OF WORK	. RI	EAD CAREFULLY
(St all oth	ate names of and expected depths to objective sands; show size important proposed work, particularly all details results Sho	te, weights, and lengths of proposed casing poting, Acidizing, Fracturing).	s; indicate mudding jobs	, cementing points, an
	· D	ETAILS OF WORK RESULT	•	
at tir	11 stem test No. 2, straddle packer 10:36, 4-12-54, with weak blow, inc nued throughout test. Recovered 60 FP-220#, 20 minutes BHSIP-2663#; Hy	creasing to very weak blo ' gas, 5' clean oil, 565'	ow after $1\frac{1}{2}$ how salt water.	irs. Con- IBHFP-15#;
Too	ill stem test No. 3, straddle packer of open at 8:12 A.M., 4-13-54, with covered 30' muddy oil cut salt water	very weak blow, increasing, 1920' salt sulphur wat	ng slightly amer. IBHFP-15	fter 3 hours.
	#; 20 minutes BHSIP-2690#; Hydro-3	Bottom packer neit	· Onay •	. •
		355# • Bottom packer neic	r chay •	.*
		355# • Bottom packer nei		
985	5#; 20 minutes BHSIP-2690#; Hydro-3		er e e e e e e e e e e e e e e e e e e	i.
985	5#; 20 minutes BHSIP-2690#; Hydro-3		er e e e e e e e e e e e e e e e e e e	
985	5#; 20 minutes BHSIP-2690#; Hydro-3		er e e e e e e e e e e e e e e e e e e	
985	5#; 20 minutes BHSIP-2690#; Hydro-3		er e e e e e e e e e e e e e e e e e e	· · · · · · · · · · · · · · · · · · ·
985	5#; 20 minutes BHSIP-2690#; Hydro-3		er e e e e e e e e e e e e e e e e e e	oduction Supt
985			er e e e e e e e e e e e e e e e e e e	oduction Supt

(SUBMIT IN TRIPLICATE)

TO

NOTICE! THIS FORM BECOMES A PERMIT WILE N STAMPED APPROVED BY AN AGENT OF THE COMMISSION.

OIL AND GAS CONSERVATION COMMISSION OF THE STATE OF MONTANA BILLINGS OR SHELBY

SUNDRY NOTICES AND REPORT OF WELLS

Notice of Intention to Drill	Subsequent Report of Water Shut-off	
Notice of Intention to Change Plans	Subsequent Report of Shooting, Acidizing, Cementing	
Notice of Intention to Test Water Shut-ofi	Subsequent Report of Altering Casing	
Notice of Intention to Redrill or Repair Well	Subsequent Report of Redrilling or Repair	
Notice of Intention to Shoot, Acidize, or Cement	Subsequent Report of Abandonment	
Notice of Intention to Pull or Alter Casing	Supplementary Well History	XXX
Notice of Intention to Ahandon Well	Report of Fracturing	

(Indicate Above by Check Mark Nature of Report, Notice, or Other Data) ootive of ciatoption xuxuxuxuxuxk) { densed } described as follows: Following is a on land report of work done BLM-A-129305 RooseveltMONTANA..... (Field) M.P.M. 28 N 32 'SW NE Section 15 (Township) Meridian) 1980 ft. { S. } of N line and 1980 ft. } of....E. line of Sec. 15... The elevation of the derrick floor above the sea level is................................2088...K.B.

READ CAREFULLY

DETAILS OF PLAN OF WORK

READ CAREFULLY

(State names of and expected depths to objective sands; show size, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work, particularly all details results Shooting, Acidizing, Fracturing).

DETAILS OF WORK RESULT

Drill stem test #4: Testing C Zone. Total depth 5795 with single packer at 5777'. Tool open 1 hour. Tool opened at 1:10 P.M., 1:-15-51; with fair blow, continued throughout test. Recovered 950' gas, 90' clean oil, 45' mud cut oil and 30' oil cut mud with no water. IBHFP-28#; FBHFP-85#; 20 minutes BHSIP-3090#; Hydro-3463#.

APPROVED SUBJECT TO CONDITIONS SHOWN ON REVERSE.

RECEIVED

APR 22 1954

Approved 4-28-5-4 GII	LYDGGGGGGGGAAGAGGGGGGGGGGGGGGGGGGGGGGGGG
Mark Fluly	FILE STATE OF MODIANA ETCHANCE
Title Geologist-Engineer	Title Ass't. Production Supt.
District Office Agent	Address Box 447, Poplar, Montana

NOTE:--Reports on this Form to be submitted to the District Agent for Approval in Triplicate.



Form No. 2 gr GENERAL RULES 201, 202, 213, 216, 219, 233.1

5.

(SUBMIT IN TRIPLICATE).

TO

OIL AND GAS CONSERVATION COMMISSION OF THE STATE OF MONTANA

THIS FORM BECOMES A
PERMIT WHEN STAMPED
APPROVED BY AN AGENT
OF THE COMMISSION.

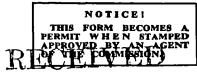
BILLINGS OR SHELBY

SUNDRY NOTICES AND REPORT OF WELLS

Notice of Intention to Drill	Subsequent Report of Water Shu	L-off	
Notice of Intention to Change Plans	Subsequent Report of Shooting,		
Notice of Intention to Test Water Shut-of?	Subsequent Report of Altering Co	asing	
Notice of Intention to Redrill or Repair Well	Subsequent Report of Redrilling	or Repair	
Notice of Intention to Shoot, Acidize, or Cement	Subsequent Report of Abandonm	ent	
Notice of Intention to Pull or Alter Casing	Supplementary Well History		XXXXX
Notice of Intention to Abandon Well	Report of Fracturing		
<u> </u>]		
(Indicate Above by Check Mark	Nature of Report, Notice, or Other I	Data)	ii
i,	Apm	1 19,	, 19. 24
Following is a { postex incintention the director on land { report of work done	described as follows:	<u> </u>	·
(report of work done)		BIM-A-129305-A	1
į.			•
MONTANA	Roosevelt (County)	Montana	(Fleid)
(State)			
Well No. 32 SW NE Section 15	28 N	51E	MaP.Ma
			•
The well is located	line and 1980 ft. $\left\{ egin{array}{c} rac{dE}{W} \end{array} ight\}$	ofEline of	f Sec15
The clevation of the derrick floor above the sea level is	0000 W D	· ·	ş
,			
	OF PLAN OF WORK		AD CAREFULLY
(State names of and expected depths to objective sands; show size, we all other important proposed work, particularly all details results Shooting,	ights, and lengths of proposed casings, Acidizing, Fracturing).	; indicate mudding Jobs,	cementing points, and
į.			• ·
•	ILS OF WORK	•	
	RESULT		
Ran 188 joints (5809.10') of $5\frac{1}{2}$ inch, J Casing. Set at 5819, Schlumberger Heas type Scratchers at 5479 to 5524, 5622 t lizers at 5447, 5538, 5652, 5725, and 5817 and Halliburton Baffle Collar at 5 down at 4:25 P.M., 4-17-54. Bumped plu held okay. Rotated pipe freely while c	sure. Landed 9.90' beloo 5694, and 5780 to 56802. Halliburton Auto 784. Cemented with 30 with 1000#, released	low RKB. HCWCO 317. Five HCWC omatic Fill-up 00 sacks of Poz	Roto- O Centra- Shoe at mix. Plug
•	ewelloring.	•	i
APPROVED SUBJECT TO CONDITIONS SHOWN ON REVERSE.	OFCEIVED		:
	OFCEIVED	nyCorporation	:
Approved (Date)	RECEIVED APR By STATE STATE OF THE STATE O	ny Corporation	:
Approved (Date)	RECEIVED APR By STATE STATE OF THE STATE O	ny Corporation O Mulaurict Production	:
Approved 7 28 - 5 4 (Date)	RECEIVED APROPRIATE STREET HOWING DEST	Q Mila	Supt.
Title Geologist-Engineer District Office Agent	Company 1951 Murph APR By COMPANY 1971 ON CHANGE OF THE STREET HOWITH Dist. Address Box	Delaction	Supt.
Approved (Date) Title Geologist-Engineer	Company 1954 Murph APR By OIL AND GAS CONSERVATION AVAILABLE STREET HOWTHAN DIST. CV THE STREET HOWTHAN BOX Address Box Approval to Triplicate.	Delaction	Supt.

TO

OIL AND GAS CONSERVATION COMMISSION OF THE STATE OF MONTANA



BILLINGS OR SHELBY

APR 24 1954

SUNDRY NOTICES AND REPORT OF WELLS

	OIL AND GAS COMSERVATION COMMENSAL	٠)؛(
Notice of Intention to Drill	Subsequent Report of Water Shut-off CF THE STATE OF MONTHA - LEADER	30
Notice of Intention to Change Plans	Subsequent Report of Shooting, Acidizing, Cementing	
Notice of Intention to Test Water Shut-off	Subsequent Report of Altering Casing	
Notice of Intention to Redrill or Repair Well	Subsequent Report of Redrilling or Repair	
Notice of Intention to Shoot, Acidize, or Cement	Subsequent Report of Abandonment	
Notice of Intention to Pull or Alter Casing	Supplementary Well History XXXX	
Notice of Intention to Abandon Well	Report of Fracturing	

(Indicate Above by Check Mark Nature of Report, Notice, or Other Data) on land described as follows: report of work done MONTANA Roosevelt <u> Montana</u> (State) Well No. 32 SW NE Section 15 28N (m. sec.) (Township) The well is located 1980 ft. } and 1980 ft. } & of E line of Sec. 15 The elevation of the derrick floor above the sea level is 2088 K.B. READ CAREFULLY DETAILS OF PLAN OF WORK READ CAREFULLY (State names of and expected depths to objective sands; show size, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work, particularly all details results Shooting, Acidizing, Fracturing). DETAILS OF WORK RESULT Ran 186 joints (5797.03') of 2 3/8", EUE, J-55, 8 rd. thd., American Tubing. Landed 9.10' below RKB and set at 5768.13! Schlumberger Measure. Displaced water with oil and perforated with Lane Wells Tubing Gun from 5790 to 5800, Schlumberger Measure, with 50 shots. Acidized with 1000 gallons Etching Acid. Formation broke at 2000#. Injected 2.4 barrels per minute at 1600#. Bled down to 1500# at end of job. Acid water to surface in 18 minutes. 10% oil, 90% acid water after 40 more minutes. flowing 70 to 90% water at the rate of 100 to 200 barrels of fluid per day open flow with 500# C.P. after 15 hours. Chlorides on water 16,000 PPM. APPROVED SUBJECT TO CONDITIONS SHOWN ON REVERSE Company Murphy Corporation Geologist-Engineer District Production Supt. Address Box 1117, Poplar, Montana District Office Agent

Form No. 2

(SUBMIT IN TRIPLICATE)

GENERAL RULES 201, 202, 213, 216, 219, 233.1

NOTICE THIS FORM BECOMES A PERMIT WHEN STAMPED APPROVED BY AN AGENT OF THE COMMISSION.

OIL AND GAS CONSERVATION COMMISSION OF THE STATE OF MONTANA

BILLINGS OR SHELBY

EH.	13	UAT.	PULLERY, CA	Part, 1251-41					
	Ù.	ï!	i ullil ti	SUNDRY	NOTICES	AND	REPORT	OF	WELLS

Notice of Intention to Drill	Subsequent Report of Water Shut-off	
Notice of Intention to Change Plans	Subsequent Report of Shooting, Acidizing, Cementing	
Notice of Intention to Test Water Shut-off	Subsequent Report of Altering Casing	
Notice of Intention to Redrill or Repair Well	Subsequent Report of Redrilling or Repair	
Notice of Intention to Shoot, Acidize, or Cement	Subsequent Report of Ahandonment	
Notice of Intention to Pull or Alter Casing	Supplementary Well History	XX
Notice of Intention to Abandon Well	Report of Fracturing	
4		

(Indicate Above by Check Mark Nature of Report, Notice, or Other Data)

· .		M	ay5	: , 19.54
Following is a { society of interction developed report of work done	MCk on land { coxoned } described	ibed as follows:		
•		LEASEB	LM-A-129305-A	
MONTANA(State)	Roosevelt		East Poplar	(Field)
Well No	ection 15 28	N	51E	M.P.M.
	sec.) (Town		(Range	Meridian)
The well is located 1980 ft. { S.	of	10ft. { 📆 }	ofEline	of \$ec15
The elevation of the derrick floor above the s	ea level is2088K.B.	***************************************		•
READ CAREFULLY	DETAILS OF PLAN OF V	VORK	RE	AD. CAREFULLY
(State names of and expected depths to objective sall other important proposed work, particularly all details	ands; show size, weights, and lengths ills results Shooting, Acidizing, Fractur	of proposed casings, ing).	; indicate mudding jobs,	cementing points, and
	DETAILS OF WORK RESULT			
Ran 500 gallons of Dowell plus with 450 gallons in formation 3000 gallons of etching acid spent acid to surface in 7 m to pits flowed estimated rat	n. By-passed 50 gallo Average injection r inutes. Formation flu	ons up casin rate 2.7 BPM nid in 32 mi	g and acidized [at 1800#. F] .nutes. After	l with Lowed
			RECEI	VED
			MAY 10	1954
APPROVED SUBJECT TO CONDITE SHOWN ON REVERSE.	IONS		OIL ARD GAS CONSERVAT OF THE STATE OF MONT	
Approved 5-10-54 Date P. An	Comps Ly By	Murph	y Corporation Q Mila	
Title Geologist-Engineer		Distr	1ct Production	Supt.
District Office Agent	Addre	ss. Box L	ц7, Poplar, Mo	ontana
NOTE:-Reports on this Form to be submitted to the	District Agent for Approval in Triplica	fe.		

(SUBMIT IN QUADRUPLICATE)

TO

NOTICE
THIS FORM BECOMES A
PERMIT WHEN STAMPED
APPROVED BY AN AGENT
OF THE COMMISSION.

OIL AND GAS CONSERVATION COMMISSION
OF THE STATE OF MONTANA

SUNDRY NOTICES AND REPORT OF WELLS

Notice of Intention to Drill		Subsequent Report of Water Shut-off
Notice of Intention to Change Plane		Subsequent Report of Shooting, Acidizing, Cementing
Notice of Intention to Test Water Shut-off		Subsequent Report of Altering Casing
Notice of Intention to Redrill or Repair Well		Subsequent Report of Redrilling or Repair
Notice of Intention to Shoot, Acidize, or Cement	XX	Subsequent Report of Abandonment
Notice of Intention to Pull or Alter Casing		Supplementary Well History
Notice of Intention to Abandon Well	il.	Report of Fracturing

(Indicate Above by Check Mark Nature of Report, Notice, or Other Data)

Following is a notice of in	ntention to do work on land	described as i	iollows:	
•		LEASE	East Poplar U	nit No. 32
MONTANA	· · · · · · · · · · · · · · · · · · ·	Roosevelt	East Po	oplar Unit
(State)		(County)		Field)
Well No. 32	SW NE Section 15	T28N	R51E	MPM
	(m. sec.)	(Township)	(Range)	(Meridian)
The well is located19	80 ft. from $\left\{ \frac{N}{XXX} \right\}$ line and	1980 ft. from X	E line of Sec	15
	N PLAT ON BACK OF THIS FO			
	floor above the sea level is			
READ CAREFULLY	DETAILS OF I	PLAN OF WORK	RI	EAD CAREFULLY
(State names of and expect cementing points, and all other	ed depths to objective sands; show s important proposed work, particularly	ize, weights, and lengths of all details results Shooting, A	proposed casings; inc cidizing, Fracturing.)	dicate mudding jobs,

DETAILS OF WORK RESULT

East Poplar Unit No. 32 is producing at the rate of 88 BFPD 5 BOPD 83 BWPD 94% BS&W - Uneconomical. This well was completed in the C-3 Zone with perforations at 5790-5800'.

It is proposed to acidize this well with 3000 gallons of 28% retarded acid. A 15 BOPD increase is expected.

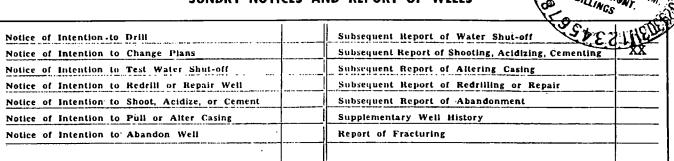
Approved subject to conditions on rev Date 3-38. 75 By District Office Agent	verse of form	Company MURPHY OIL CORPORATION By School Company Title Acting District Superintendent Address P.O. Box 547, Poplar, Montana 59255
COMMISSION USE ONLY API WELL NUMBER	NOTE:—Reports on this fo	orm to be submitted to the District Agent for Approval in Quadruplicate

NOTE:—Reports on this form to be submitted to the District Agent for Approval in Quadruplicate

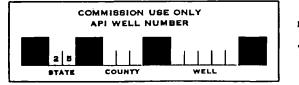
(SUBMIT IN QUADRUPLICATE)

OIL AND GAS CONSERVATION COMMISSION
OF THE STATE OF MONTANA
BILLINGS OR SHELBY

SUNDRY NOTICES AND REPORT OF WELLS



Notice of Intention to Abando	on Well	Report of Fracturing		
	•			
(Indi	cate Above by Check Mark	Nature of Report, Notice, or	Other Data)	
		••••••	April 17	19.73
ollowing is a report of work	XXXXXXXXXXX on land	XXXXXX described as	follows:	
•			East Poplar	Unit No. 32
MONTANA		Roosevelt	. East	Poplar Unit
(State)		(County)	(F	field)
Vell No32 SW	NE Section 15	T28N (Township)	R51E (Range)	MPM (Meridian)
he well is located 1980	ft. from \ N \ line an	d 1980 ft from	E line of Sec	15
OCATE ACCURATÉLY ON PL				
he elevation of the derrick floor				
EAD CAREFULLY	DETAILS O	F PLAN OF WORK	RE	AD CAREFULLY
(State names of and expected dependenting points, and all other import				licate mudding jobs,
		ILS OF WORK RESULT		
HCL acid as follows acid l joint above took acid at 3 BPM Formation broke bac	s: Ran Baker Retra packer and set pac at 700 PSI and but ok to 1100 PSI with acid in formation.	with 3,000 gallons levomatic packer to eker. Pressured ann ilt to 1400 PSI with 50 bbls. in formaton. Pressure decrea	5770'. Filled ulus to 500 PSI 34 bbls. in fo ion. Pressure	hole, spotted , Formation rmation. slowly increase
Workover Potential	3 Hr. Test Pum 96% W.C.	ped 23.11 BF = 185		
Approved subject to conditions	on reverse of form	CompanyMURP	HY OIL CORPORAT	ION
Date thil 20, 191	3 f g	Ву	& Brancer	
By Kulspy J. B. District Office Agen	t Title	Title Distri	ct Superintende	ent .
District Office Agen	Title .	Address P.O. E	ox 547, Poplar,	Montana 5925



NOTE:—Reports on this form to be submitted to the District Agent for Approval in Quadruplicate WHEN USED AS PERMIT TO DRILL, THIS EXPIRES 90 DAYS FROM DATE OF APPROVAL.

COUNTY

(SUBMIT IN QUADRUPLICA

NOTICE IS FORM BECOMES A MIT WHEN STAMPED ROVED LY AN AGENT THE COMMISSION.

OIL AND GAS CONSERVATION COMMISSION OF OF THE STATE OF MONT MAIL BILLINGS OR SHELBY STATE OF MONT,

BILLINGS

SUNDRY NOTICES AND REPORT OF

Notice of Intention to Drill		Subsequent Report of Water Shut-off	ENA CO
Notice of Intention to Change Plans		Subsequent Report of Shooting, Acidizing, Cementing.	
Notice of Intention to Test Water Shut-off		Subsequent Report of Altering Casing	国的区
Notice of Intention to Redrill or Repair Well		Subsequent Report of Redrilling or Repair	
Notice of Intention to Shoot, Acidize, or Cement	X	Subsequent Report of Abandonment	
Notice of Intention to Pull or Alter Casing		Supplementary Well History	
Notice of Intention to Abandon Well		lleport of Fracturing	
Zone Change	X		

(Indicate Above by Check Mark Nature of Report, Notice, or Other Data)

					November	<u>29</u> , ₁₉ 73
Following is	s a notice of	intention to do work or	land XXXXX			
				LEASE	East Poplar Un	it No. 32
	MONTAN	A	Roosevelt	:	East 1	Poplar Unit
-	(State)		(County))	. (1	Field)
Well No	32	C SW NE Sect	ion 15	T28N	R51E	MPM
11011	· · · · · · · · · · · · · · · · · · ·	(m. sec.)	••••••••••••	(Township)	(Range)	(Meridian)
The well is	located1	980 ft. from \ \ \frac{N}{XXX} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	ne and 1980)ft. from	E line of Sec	15
		ON PLAT ON BACK OF T			,	
		k floor above the sea leve				
READ CAR	EFULLY	DETAI	LS OF PLAN O	F WORK	RE	AD CAREFULLY
(State nar	nes of and expedints, and all other	ted depths to objective sands important proposed work, pa	; show size, weigh ticularly all details	nts, and lengths of results Shooting,	f proposed casings; inc Acidizing, Fracturing.)	licate mudding jobs,
		n	ETAILS OF WO)RK		

RESULT

At the present time this well is producing at the rate of 104 BFPD 4 BOPD 100 BWPD 96% W.C. which is uneconomical.

A bridge plug will be set with one sack of cement over the C-Zone. The A-Zone will be perforated at 5480-5496' with a thru tubing gun. The A-Zone will be acidized with 3000 gallons of 28% acid, if needed.

Approved subject to conditions on reve	erse of form	CompanyMU	RPHY OIL	CORPORAT	ION	
Date 13-3-73		Ву	• • • • • • • • • • • • • • • • • • • •			
By District Office Agent	Title	Title Distri	ct Superi	ntendent	***************************************	••••
		Address P.O.	Box 547,	Poplar,	Montana	a 5925
COMMISSION USE ONLY API WELL NUMBER	NOTE:—Reports on this for	rm to be submitted	to the District	Agent for A	Approvál in	Quadruplic

WHEN USED AS PERMIT TO DRILL, THIS EXPIRES 90 DAYS FROM DATE OF APPROVAL.

2

(SUBMIT IN QUADRUPLICATE)

TO

OIL AND GAS CONSERVATION COMMISSION OF THE STATE OF MONTANA OF THE STATE OF SHELBY

NOTICE
THIS FORM BECOMES A
PERMIT WHEN STAMPED
APPROVED BY AN AGENT
OF THE COMMISSION.

SUNDRY NOTICES AND REPORT OF WELLS

<u>`</u>				
Notice of Intention to Drill	Subsequent Report of Water Shut-off			
Notice of Intention to Change Plans	Subsequent Report of Shooting, Acidizing, Cementing	<u> X</u>		
Notice of Intention to Test Water Shut-off	Subsequent Report of Altering Casing			
Notice of Intention to Redrill or Repair Well	Subsequent Report of Redrilling or Repair			
Notice of Intention to Shoot, Acidize, or Cement	Subsequent Report of Abandonment			
Notice of Intention to Pull or Alter Casing	Supplementary Well History			
Notice of Intention to Abandon Well	Report of Fracturing .			
	Zone Change	Х		

	(Indicate Above by Ci	eck Mark Nature of	Report, Notice, or Othe	r Data)	
			•••••	January 18	19.74
Following is a XXXIIXXXXX	work done	on land XXXX	described as for	llows:	
					Unit No. 32
MONTAN	A	Roosevel	t	East Poplar	Unit
(52.07)		(Coun		,	rieldi
Well No. 32	C SW NE	Section 15	T28N	R51E (Range)	MPM
The well is located19	$\frac{180}{380}$ ft. from $\frac{180}{380}$	ζ line and 198	$\frac{50}{XX}$ ft. from $\frac{1}{XX}$	XX line of Sec	13
LOCATE ACCURATÉLY	ON PLAT ON BACK (OF THIS FORM TI	IE WELL LOCATION	, AND SHOW L	EASE BOUNDARY
The elevation of the derric	k floor above the sea	level is207	78' G.L.	•	
READ CAREFULLY	DE	TAILS OF PLAN	OF WORK .	. Ri	EAD CAREFULLY
(State names of and exper cementing points, and all other	ted depths to objective inportant proposed work	sands; show size, we c, particularly all deta	ights, and lengths of pr ails results Shooting, Acid	roposed casings; indizing, Fracturing.)	dicate mudding jobs.
·		DETAILS OF V	work		
A 5-1/2" C.I. bridge A-2 and A-3 Zones we as follows: Circ. b formation with 3400 l acid, set packer, an inhibitor, emulsion	ere perforated from the self with salt were self with salt were self with the self wit	rom 5480-5496 ater, set pack ection Rate. asing to 1000	', 4 holes per focer, pressure car Released pressure PSI. Pumped 30	oot。 The wei sing to 1000 re and packer	ll was acidized PSI. Broke c. Spotted
		1 1/2 ppv	Mondo	um PSI	3400#
Maximum Injec Minimum Injec		1-1/2 BPM 1/4 BPM		um PSI	900#
ISIP	LION Race	600#		n. S.I.	500#
Workover Potential:	24 Hr. Test 2	13 BFPD 6 BO	PD 207 BWPD 97	% W.C.	
Approved subject to cond			Company MURPHY	OIL CORPORA	TION
Date Jan 23	1974		B.,	Basin	_
	118	NE.	By		
By District Office	Agent Title		Title District S		
/	u		Address P.O. Bo	x 547, Popla	r, Montana 592
COMMISSION USE ONLY		m		m 1.1.	

NOTE:--Reports on this form to be submitted to the District Agent for Approval in Quadruplicat

WHEN USED AS PERMIT TO DRILL, THIS EXPIRES DO DAYS FROM DATE OF APPROVAL.

Submit In Cylindricate To 994 ARM 36.22.307, 1003, 1004, 1011, Rev. 8-92 Montana Board of Oileand Gas Construction 1013, 1103, 1222, 1301, 1306, and 1309 Billings on Blicky Office Sundry Notices and Report of Murphy Exploration & Production Lease Name: Operator East Poplar Unit No. Lease Type (Private/State/Federal): Address P.O. Box 547 Federal 59255 Poplar City Well Number: Telefax Number (406) 768-5497 Telephone Number (406) 768-3612 Unit Agreement Name: Location of well (1/4-1/4 reschooters) (polygo maggarations). East Poplar Unit 1980' from the North line and 1980' from the Field Name or Wildcat: East line East Poplar Unit If directionally or horizontally drilled, show both surface and bottom hole locations) Section, Township, and Range: Sec. 15, R28N, R51E API Number: -Well Type (oil, gas, injection, other): County: 25 Mar 0 8 5 Mar 0 5 0 2 Roosevelt Oil Indicate below with an X the nature of this notice, report, or other data: Notice of Intention to Change Plans Subsequent Report of Mechanical Integrity Test Notice of Intention to Run Mechanical Integrity Test Subsequent Report of Stimulation or Chemical Treatment Notice of Intention to Stimulate or to Chemically Treat Subsequent Report of Perforation of Cementing Notice of Intention to Perforate or to Cement Subsequent Report of Well Abandonment Notice of Intention to Abandon Well Subsequent Report of Pulled or Altered Casing Subsequent Report of Drilling Waste Disposal Notice of Intention to Pull or Alter Casing Notice of Intention to Change Well Status Subsequent Report of Production Waste Disposal Supplemental Well History Subsequent Report of Change in Well Status Other (specify) _ Subsequent Report of Gas Analysis (ARM 36.22.1222) П Describe Proposed or Completed Operations: Describe planned or completed work in detail. Attach maps, well-bore configuration diagrams, analyses, or other information as necessary. Indicate the intended starting date for proposed operations or the completion date for completed operations. Move in rig up pulling unit. Pump 100 barrels corrosion 10-05-94 inhibited 10.2# water down casing, 20 barrels down the Pull tubing and lay down. tubing. Rig up Penkota Wireline run in to 5400' and set 5½" B.P. 10-06-94 Rig down. Pressure csing to 500#'s held for 30 minutes. 10-23-94

	BOARI	ÜSE ONLY
Approved	NOV 1 4	1994
	Date	
Accep	ted for record	purposes only
	Name	Tide

The undersigned hereby certifies that the information contained on this application is true and correct:

11-02-94

Date

Raymond Reede, District Manager

Print Name & Title

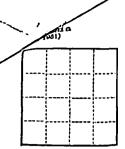
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UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Land	Offic	·•	B1114	nes	
Loas	No ₁	BU	M-A-4	29305	/
Unit	E	tae	Pop	lar	
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SUNDRY NOTICES A	AND	REPOR	TS OI	N WEI	LLS	
NOTICE OF INTENTION TO DRILL	XXX	SUBSEQUENT REPO	ORT OF WATER	R SHUT-OFF		
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPO				1 1
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	.]	SUBSEQUENT REPO	RT OF ALTER	ING CASING		
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPO	RT OF RE-DR	ILLING OR RE	PAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPO	ORT OF ABANG	ONMENT		
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY 1	WELL HISTORY	ſ		
NOTICE OF INTENTION TO ABANDON WELL		•••••				
(INDICATE ABOVE BY CHECK MAR	RK NATUI	RE OF REPORT, NO	rice, or othe	R DATA)		·
		Q	st ober 2	7,		., 19چے۔
Well No32 is located1980. ft. from	m {N	line and	1980 . ft. fi	$\operatorname{rom}\left\{egin{array}{c} \mathbf{E} \\ \mathbf{W} \end{array}\right\}$ l	ine of sec.	15
Si UP 100 15 No.) (Twp.)	(Runge	38H	(Moridian)			
Bast Poplata (Ciling	90AND	dision)		Hontana	rritory)	
The elevation of the derrick floor above sea le	level is	s ft.	(Not y	et run)		
DETA	A 11 C	OF WORK	\ 0			
DETA (State names of and expected depths to objective sands; show s ing points, and all	sizas, wai	ights,'and lengths	of proposed e	asinge; Indica	te mudding jo	bs, cement-
Approximately 1000 feet of 9 5/8 in cement. Total depth is expected to section of the Madison Formation. duction string. Adequate blow out preventers will be	5} 1	5900 feet nob, 15.50	so as to Feasting	evalul vill b	ate the	producing r pro-
			ON REVERS		COMPINION	
		(Grig	. Sed.) H.	H. PERDICE	00	T 29 195
			DISTRICT	ENCINEER		DATE
I understand that this plan of work must receive approval	in writi	ng by the Geologic	cal Survey bef	ore operation	s may be come	nenced.
Company Corporation	·			••		
Address				,	_	•
Poplar, Montana		Ву	/bo	Mall	Mi	lou
- ·		Title	···lifatri	ct Prod	ection S	mt

Budget Bureau 42-R858.3. Approval expires 12-31-65.



COPY RETAINED DISTRICT OFFICE (SUBMIT IN TRIPLICATE)

Lease No. BLM-A-029305-A
Unit East Poplar

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

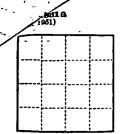
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	ITION TO TEST WATER SHU	T-0FF	ll .	-		CASING	
Q. 41	ITION TO RE-DRILL OR REP	, T / Ca.	11 -	_		ING OR REPAIR.	i
NOTICE OF INTEN	TION TO SHOOT OR ACIDIZ	`.^'% ^1_ Œ	SUBSE	Duent report	OF ABANDON	MENT	
NOTICE OF INTEN	ITION TO PULL OR ALTER C	ASING	ı • •				ison
NOTICE OF INTEN	TION TO ABANDON WELL	924					
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21	(INDICATE ABOV	E BY CHECK MARK	NATURE OF F	EPORT, NOTICE	S, OR OTHER D	ATA)	
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SW NE Sect	tion 15	28N (Twp:)	SIE (Range)		м.Р.М.	00.00	1 . O T.
East Popla			evelt	. (M	deridian) Mont	ana	, _ n, _ ' ()
DESC TODIA			r Subdivision)			state or Territory)	
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	of the derrick floor	above sea lev	el is 20	<u> 8 ft. K</u>	В	APIN.	•
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U. B. GOVERNMENT PRINTING OFFICE 15-6487-6

\ 9-881&	Approval expires 12-31-55.
. 1951)	(SUBMIT IN TRIPLICATE) Land Office Billings
	UNITED STATES
	DEPARTMENT OF THE INTERIOR Unit Part Poplar
	GEOLOGICAL SURVEY RECEIVED
<u> </u>	PROTETVIETO APR 15 1950
SUNI	DRY NOTICES AND REPORTS ON WELLS GREAT SURVEY
NOTICE OF INTENTION TO	APR 1 1950 S Process (CASE OF THE PROCESS OF THE PR
1	THANCE DI ANG
•	TEST WATER SHUT-OFF SUBSEQUENT REPORT OF ALTERNAC CASING
NOTICE OF INTENTION TO	RE-DRILL OR REPAIR WELL SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.
	SHOOT OR ACIDIZE
	PULL OR ALTER CASINGSUPPLEMENTARY WELL HISTORY
NOTICE OF INTENTION TO	ABANDON WELL:
	(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)
•	
TWT 11 2.7	$\{N\}_{i}$
Well No32	is located1980 ft. from $\begin{bmatrix} N \\ N \end{bmatrix}$ line and1980 ft. from $\begin{bmatrix} E \\ W \end{bmatrix}$ line of sec15
	5 (Tab.) (Rango) (Mendia)
East Poplar	(Chart and the control of the contro
The elevation of the	derrick floor above sea level is 2088 ft. K.B.
THE CICYALION OF THE	•
	DETAILS OF WORK
(State names of and expected	depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, coment- ing points, and all other important proposed work)
617' Drill stem	test No. 1, straddle packers 5493 to 5503, total depth 5548. Tool
pen 3g hours. To	ol opened at 11:10 A.M., 4-8-54, with good blow, increasing to fair
otow in 25 nours.	Cas to surface in 3 hours and 20 minutes. Recovered 30° of clean alt water. Tool would not close for shut-in pressure. IMMF-26#;
EHFP-2503	-3300. Bottom packer held okay.
	APR 1.7-1954
•	Approved (Grig. Szd.) H. H. PERRING
	CALL OF H. H. PEURICO
•	thrapid fregress
	:
I understand that this pi	an of work must receive approval in writing by the Geological Survey before operations may be commenced.
Company	y Corporation
	y Corporation
	By Harold Milan

COPY RETAINED DISTRICT OFFICE

Budget Bureau 42-R358.8. Approve expires 12-31-65.



. (SUBMIT. IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Offic	. Bi.	llings
Lease No.	BLM-A	-129305-
•• •	Fast.	Poplar

RECEIVED

SUNDRY NOTICES AND REPORTS ON WERLS

NOTICE OF INTENTION TO DRILL	<u> </u>	SUBSEQUENT REPORT OF WATER SHOT OF FEOL OF HELD	النو
NOTICE OF INTENTION TO CHANGE PLANS	-	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	.
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	-
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	-	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	-	SUPPLEMENTARY WELL HISTORY	مم
NOTICE OF INTENTION TO ABANDON WELL.			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

	·	April 14,	, 19 <u>54</u>
Well No. 32 is locate	ed 1980 ft. from (N) line	and1980 ft. from $\left\{ egin{array}{c} \mathbf{E} \\ \mathbf{W} \end{array} \right\}$ line of	sec15
SW NE Section 15 04 Sec and Sec No.) East Poplar	28 N 51E (Twp.) (Range) Roosevelt	MaPaMa (Moridian)	ICAL SURIES
(Field)	(County or Subdivision)	(Stod or Tentory)	TVEU
The elevation of the derrick		· · · · · · · · · · · · · · · · · · ·	19 1954
State names of and expected depths to	DETAILS OF We objective sands; show sizes, weights, and ill other important	lengths of proposed casings Indicate mudd	ii (

Drill stem test No. 2, straddle packers at 5632 to 5641. Tool open 4 hours, opened at 10:36, 4-12-54, with weak blow, increasing to very weak blow after 1½ hours. Continued throughout test. Recovered 60' gas, 5' clean oil, 565' salt water. IBHFP-15#; FBHFP-220#, 20 mpnutes BHSIP-2663#; Hydro-3463#. Bottom packer held okay.

Drill stem test No. 3, straddle packers, B-2 Zone, 5642 to 5653. Tool open 4 hours. Tool open at 8:12 A.M., 4-13-54, with very weak blow, increasing slightly after 3 hours. Recovered 30' muddy oil cut salt water, 1920' salt sulphur water. IBHFP-15#; FBHFP-985#; 20 minutes BHSIP-2690#; Hydro-3355#. Bottom packer held okay.

Approved APR 17 1054

Herry

District Russians

I understand that this plan of work must receive approval in writing by the Goological Survey before operations may be commenced

Company	Murphy Corporation	
Address	Вох 447	1 . ~
•••••	Poplar, Montana	By My familia
		Title Ass't. District Production Supt

U. E. GOVERNMENT PRINTING OFFICE 10-8437-8

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UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

A	pproval	expires	13-81-55.
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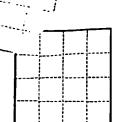
.... No. 1114-1-029305-1

SUNDRY NO	TICES AND	REPORT	S ON WE	L LS	•
NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT	OF WATER SHUT-OFF.	1	
NOTICE OF INTENTION TO CHANGE PLANS	1 1	SUBSEQUENT REPORT			
NOTICE OF INTENTION TO TEST WATER SHU	IT-OFF	SUBSEQUENT REPORT	F ALTERING CASING.		
NOTICE OF INTENTION TO RE-DRILL OR REI	PAIR WELL	SUBSEQUENT REPORT	F RE-DRILLING OR R	EPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDI		SUBSEQUENT REPORT			
NOTICE OF INTENTION TO PULL OR ALTER (NOTICE OF INTENTION TO ABANDON WELL		SUPPLEMENTARY WELL	HISTORY		XX
		·			-
(INDICATE ABO	VE BY CHECK MARK NATU	RE OF REPORT, NOTICE,	OR OTHER DATA)		
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East Poplar (Field)	Superval!	livisiou)	Montana		
(Field)	(County or Subd	livisiou)	(State or T	erritory)	
1	DETAILS	OF WORK			
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ll stem test #h: Testing l open l hour. Tool open	ned at halo Pal	1. 4-15-5h.	Ath fair bl	ov. eestin	æd
ll stem test #h: Testing l open l hour. Tool open Dagbout test. Hocovered	ned at 1:10 P.1 950' ges. 90'	t., 4-15-54, clean oil. 4	of the fair bl	ow, essiting	ted lo
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ll stem test fly Testing Lopen I hour. Tool open mighout test. Hocovered and with no water. Total	ned at 1,:10 P.I 950 gas, 90° FP-28 FRIFP-(clean oil, h	Ath fair bi mad cut of mid cut of mid cut of AF (file sgl.) H.	ow, edition il and 30° of Rydro- R 2 2 1954 H. Penaico	ad 3145

Ass*t. Production Supt.

GOPY RETAINED DISTRICT OFFICE

Pudged Bureau 43-R858.2 Approval expires 13-81-85.



(SUBMIT IN TRIPLICATE)

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Lease No. Billings
Lease No. BIM-A-D29305-A
Unit East Poplar

RECEIVED

APR 22 1954

SUNDRY NOTICES AND REPORTS ON WELLS U. S. GLUEGGIGAL SURVEY

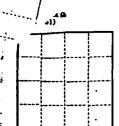
1	NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF PRUNOS MONT	11.6
	NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.	
	NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING.	
	NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.	
	NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
	NOTICE OF INTENTION TO PULL OR ALTER CASING.	SUPPLEMENTARY WELL HISTORY	XX
	NOTICE OF INTENTION TO ABANDON WELL	1	
1			

NOTICE OF INT	TENTION TO SHOOT OR A	CIDIZE		SUBSEQUENT REPORT OF ABANDONMENT.	
NOTICE OF INT	TENTION TO PULL OR ALT	TER CASING		SUPPLEMENTARY WELL HISTORY	XX
NOTICE OF INT	TENTION TO ABANDON WE	11			
***************************************	(INDIGATE	ABOVE BY CHECK MARK	NATI	URE OF REPORT, NOTICE, OR OTHER DATA)	<u></u>
	•			,	
				April 19,	54
Well No	32 is located	1 1980 ft from	1] 23 -	$\left\{\begin{array}{c} \mathbf{X} \\ \mathbf{X} \end{array}\right\}$ line and1980. ft. from $\left\{\begin{array}{c} \mathbf{E} \\ \mathbf{X} \end{array}\right\}$ line of sec1	5
	ection 15	28 N	5.	IE M.P.M. Fin IGICAL SUDJE	
• • • • • • • • • • • • • • • • • • • •	and Sec. No.) plar	(Twp.) (Rong		
	Pield)	(County or			}}
The elevation	n of the derrick fl	oor:above:sea:lev	el i	s 2088 ft. K.B.	
		DETAIL	، کنا	OF WORK	
'(State names of a	and expected depths to ob	jective sands; show size ing points, and all ot	s, we ber i	rights, and lengths of proposed carings; indicate mudding jobs, cer important proposed work)	nent-
Casing. Stype Scrat lizers at at 5817 ar Plug down	Set at 5819; 58 tchers at 5479 5047, 5538, 50 ad Halliburton at 4:25 P.M.,	chlumberger Me to 5524, 5622 652, 5725, and Baffle Collar 4-17-54. Bum	ası to 58 a1 pec	-55, 15.50#, 8 rd. thd., Range 2 Ameriure. Landed 9.90 below RKB. HCWCO 10 5694, and 5780 to 5817. Five HCWCO 802. Halliburton Automatic Fill-up St 5784. Cemented with 300 sacks Pozmid plug with 1000#, released pressure, hile cementing.	Roto- Centra noe ix.
				Approved APR 2 2 1954	
				Hollewing Bridge	
				District Engineers	
I understand	that this plan of work m	ust receive approval in w	riti	ng by the Geological Survey before operations may be commenced	
Company	Murphy Co	rporation		······································	
Address	Вох 447				
	Poplar, 1	iontana		By Hard mean	
		~~~~		Title District Production Supt.	

# COPY RETAINED DISTRICT OFFICE

Budget Baron 47-R388.3. Approval expires 12-31-55.

e " Colonia Carta Carta



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(SUBMIT, IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Billings

Unit East Poplar

### SUNDRY NOTICES AND REPORTS ON

NOTICE OF INTENTION TO DRILL	 SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	 SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST, WATER, SHUT-OFF	 SUBSEQUENT REPORT OF ALTERING CASING.	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	 SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	 SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING.	 SUPPLEMENTARY WELL HISTORY	XX.
NOTICE OF INTENTION TO ABANDON-WELL	 	
•	• •	

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

			<b>A</b> p	ril 22,	, 19_54
F.	2.Well No	32 is located 1980	ft. from N line and 19	80 ft. from EX line of sec	
	SW NE Se	and Bee. No.)	(Bangs)	MoPoMo (Meridian)	AL SURVEY
-	Rast Pop	lar Field)	Roosevelt (County or Babdivisian)	(Style of Territory)	7 1954
Tr:	The elevation		ve sea level is 2088 ft. K	CAPR X	W. Januaria
			DETAILS OF WORK		المستشتة
وشاكه	: (State names of	and expected depths to objective sam	ds; show sizes, weights, and lengths of ts, and all other important proposed t	proposed casings; indicate mudding work)	Jobs, cement-
	and performith 50 sho Injected 2 water to so flowing 70	ated with Lane Wells ots. Acidized with l h barrels per minute urface in 18 minutes. to 90% water at the	Tubing Gun from 5790 000 gallons Etching A at 1600#. Bled down 10% oil, 90% acid w rate of 100 to 200 ba Chlorides on water 1		Measure, at 2000#. ob. Acid nutes. Now
		-	Approved APP 26  District Engineer	1954 - REGED - NEW -	<u> </u>
	a l understand	that this plan of work must receive	approval in writing by the Goological	Survey before operations may be com	menced.
. <b>.</b>	Company	Murphy Corporation	·	•	
 •	Address	Вож 447		// -	
		Poplar, Montana	By	Marald Mr	lan

Title District Production Supt.

16-8487-8

Form 9-881a (Feb. 1951)						

Land Offic	•Ri	llingo
Lease No.	BIM-	-029305-
	Reat.	Popler

	DEPARTMEN'	ED STATES	Unit Dast Popler
SU	NDRY NOTICES A	SICAL SURVEY  ND REPORTS ON	WELLYSI O 1954
NOTICE OF INTENTION OTIRE OF INTENTION	TO DRILL	SUBSEQUENT REPORT OF WATER SUBSEQUENT REPORT OF SHOOTI SUBSEQUENT REPORT OF ALTERI SUBSEQUENT REPORT OF RE-DRIL SUBSEQUENT REPORT OF ABANDO SUPPLEMENTARY WELL HISTORY	SHUTTOFE GEOLOGICAL SURVEY NG OR ACIDIZING NG CASING VILLINGS, WONTHAND LING OR REPAIR DIMMENT
MAY 11 1954  OIL AND GAS CONSERVATION CONTAIN  OF THE STATE OF MORTANA - CH  Well No. 32	100.10.1		- 
Si-UPPasti	<del>к.,15</del> <del></del> 29-н	Rango (Moraling	
····Bast-Poplar	(County C	Pate (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1	(Stille of Territory)
The elevation of t	he derrick floor above sea lev	elis page ft wa	
The elevation of t		LS OF WORK	
(State names of and expe	cted depths to objective sands; show size		sings; Indicate mudding Jobs, coment-
with 450 gallo 3000 gallons of spent acid to	ns of Dowell Plugging Mons in formation. By-pof etching acid. Averagerface in 7 minutes. I estimated rate of 100	assed 50 gallons up ca ge injection rate 2.7 Formation fluid in 32	sing and acidized with BH at 1800#. Flowed minutes. After cleaning pen flow.
		Therefore and the	naéri.
I understand that th	ls plan of work must receive approval in	writing by the Geological Survey before	re operations may be commenced.
Company	rphy Corporation		,
Address <u>a</u> e	zz-447	,,	0 3 4
]	Coplar, Montana	Ву Па	eld milan
•	······································	Title Distric	t Production Supt.

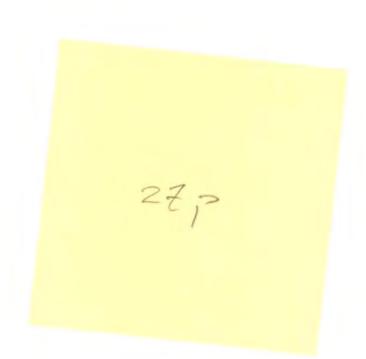
U. S. GOVERNMENT PRINTING OFFICE 16-8487-8

	U TED STATES	SUBMIT IN TRI LATE (Other instructions on re	Budget Bureau No. 42-K1424.
DEPA	RTMENT OF THE INT	ERIOR verse aide)	5. LEASE DESIGNATION AND SERIAL NO.
	GEOLOGICAL SURVEY		BLM-A-029305 — H
SUNDRY N	NOTICES AND REPORT	S ON WELLS at Survey	3. 11 11 11 11 11 11 11 11 11 11 11 11 11
(Do not use this form for Use "AP	proposals to drill or to deepen or population FOR PERMIT—" for p	uch proposals)	Fort Peck
			7. UNIT AGREEMENT NAME
WELL TO WELL OTE	RER	MAR 1 1973	East Poplar Unit
NAME OF OPERATOR		The state of the s	8. FARM OR LEASE NAME
Murphy Oil Corporat	ion		East Poplar Unit
ADDRESS OF OPERATOR		Billings, Montara	9. WELL NO.
P.O. Box 547, Popla			No. 32
See also space 17 below.)	ation clearly and in accordance with	any State requirements.	10. FIELD AND POOL, OR WILDCAT
At surface			East Poplar Unit
1080' from the North	h line and 1980' from	aha Basa 14aa	SURVEY OR AREA
1900 from the Nort	n line and 1980 from	the East line	SW NE Section 15,
PERMIT NO.	15. ELBYATIONS (Show wheth	her DF. ST. GR. etc.)	T28N, R51E.
	2078' 0	· · · · · · · · · · · · · · · · · · ·	
-			Roosevelt Montana
Chec	ck Appropriate Box To Indica	ite Nature of Notice, Report, or	Other Data
NOTICE OF	INTENTION TO:	. SURSE	QUENT REPORT OF:
TEST WATER SHUT-OFF	PULL OB ALTER CASING	WATER SHUT-OFF	REPAIRING WELL
FBACTURE TREAT	MULTIPLE COMPLETE	PRACTURE TREATMENT	ALTERING CASING
SHOOT OR ACIDIZE	ABANDON®	SECOTING OR ACIDIZING	ABANDONMENT*
REPAIR WELL	CHANGE PLANS	(Other)	
(Other)		(Norm: Report resulting or Recommendation of Rec	ts of multiple completion on Well pletion Report and Log form.)
proposed work. If well is nent to this work.)*	directionally drilled, give subsurface	rinent details, and give pertinent date	s, including estimated date of starting an cal depths for all markers and sones pert
Rast Poplar Unit No	directionally drilled, give subsurface	the rate of 88 BPPD 5	cal depths for all markers and sones pert  BOPD 83 BWPD 94%
East Poplar Unit No BS&W - Uneconomical 5790-5800'.	. 32 is producing at . This well was comp	the rate of 88 BPPD 5	BOPD 83 BWPD 94%
East Poplar Unit No BS&W - Uneconomical 5790-5800'.	. 32 is producing at . This well was comp	the rate of 88 BFPD 5	BOPD 83 BWPD 94%
East Poplar Unit No BS&W - Uneconomical 5790-5800'. It is proposed to a BOPD increase is ex	. 32 is producing at . This well was comp cidize this well with pected.	the rate of 88 BFPD 5	BOPD 83 BWPD 94%
East Poplar Unit No BS&W - Uneconomical 5790-5800'. It is proposed to a BOPD increase is ex	. 32 is producing at . This well was comp cidize this well with pected.	the rate of 88 BPPD 5 pleted in the C-3 Zone was 3000 gallons of 28% re	BOPD 83 BWPD 94%
East Poplar Unit No BS&W - Uneconomical 5790-5800'.  It is proposed to a BOPD increase is ex	. 32 is producing at . This well was comp cidize this well with pected.  Title  Title ate office use)	the rate of 88 BPPD 5 pleted in the C-3 Zone was 3000 gallons of 28% re	BOPD 83 BWPD 94% with perforations at starded acid. A 15

	Kef. 21
UNITED STATES SUBMIT IN TRIPLICATE.	Form approved.
DEPARTMENT OF THE INTERIOR Verse side)	Budget Bureau No. 42-R1424.  5. LEASE DESIGNATION AND SERIAL NO.
GEOLOGICAL SURVEY	BLM-A-029305-A
SUNDRY NOTICES AND REPORTS ON WELLS	6. IF INDIAN, ALLOTTEE OR THIRE NAME
(Do not use this form for proposals to drill or to deepen or plug back to a diggradule servoir Use "APPLICATION FOR PERMIT—" for such proposals in Control of the Control o	그
Use "APPLICATION FOR PERMIT—" for such proposal pro-	Fort Peck
OIL WELL CAB OTHER A073	East Poplar Unit
2. NAME OF OPERATOR	8. FARM OR LEASE NAME
Murphy Oil Corporations	East Poplar Unit
8. ADDRESS OF OPERATOR	9. WELL NO. The state of the st
8. ADDRESS OF OFERTOR P.O. BOX 547, Poplar, Montana 59255 4. LOCATION OF WELL (Report location clearly and in accordance with any State regardements.	No. 32
See also space 17 below.)	East Poplar Unit
At surface	11. SPC, T., B., M., OB BLE. AND STEELS
1980 from the North line and 1980 from the East line	C SW NE Section 15;
The state of the s	T28N R51E \$ 23.73
14. PERMIT NO. 15. BLEVATIONS (Show whether DF, RT, GR, etc.)	12. COUNTY OR PARISH 18. STATE
2078 G.L.	Roosevelt   Montana
16. Check Appropriate Box To Indicate Nature of Notice, Report, or O	ther Data 링플링트 - 플 플링링트
A 10	BNT REPORT OF 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
TEST WATER SHUT-OFF PULL OR ALTER CASING WATER SHUT-OFF	REPAIRIBO WELL
PRACTURE TREAT MULTIPLE COMPLETE PRACTURE TREATMENT	ALTERINO CASINO
SHOOT OR ACIDIES ABANDON SHOOTING OR ACIDIZING XX	ABANDONMENT!
BEPAIR WELL CHANGE PLANS (Other) (NOTE: Report results	of multiple completion on Well 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
(Other)  Completion or Recomple  17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates,	
proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical neat to this work.)	depths for all markers and sones perti-Q
	Sound 1 Hard 1 H
East Poplar Unit No. 32 was acidized with 3,000 gallons of 28% re	tarded, inhibited HCL
acid as follows: Ran Baker Retrievomatic packer to 5770'. Fille	d hole, spotted acid
1 joint above packer and set packer. Pressured annulus to 500 PS at 3 BPM at 700 PSI and built to 1400 PSI with 34 bbls. in format	ion. Formation broke
back to 1100 PSI with 50 bbls in formation. Pressure slowly inc	reased to 1200 PSI with
all acid in formation. Pressure decreased to 1100 PSI with 20 bb	ls. overflush in forma-
tion. Proposed to author this well and 1000 gallows in 1887 had	
,一直上上上,"我们就是一个大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大	Company of the state of the sta
ISI = 500 PSI 15 Min. S.I. = Vacuum	40.75 men 1.25 men 1.
Workover Potential: 3 Hr. Test Pumped 23.11 BF. = 185 BFPD 17	7 BWPD 7 BOPD 7 F
96% W.C.	5000 7000 7000 7000 7000 7000 7000 7000
U. S. GEOLOGICA	SURVEY STATE TO SEE STATE OF THE STATE OF TH
U.S. GEOLUGION	
RECEIV	
APR 27	1973
APR &	
18. I hereby certify that the foregoing is true and correct	VOANING TO THE TOTAL TOT
CASPER, W	April 17 - 1973
	DATE APILL 17 1975
(This space for Federal or State office use)	
APPROVED BY TITLE	DATE 4-24-73
OUNDERVIOUS AREAUTIME ARE:	공원부표 중 등도표

18. I hereby certify that the foregoing is  8IGNED 22 Baccos  (This space for Federal or State office	TITLE _	District Superintende	nt DATE November 29, 197
18. I hereby certify that the foregoing is	true and correct		
A bridge plug will be a perforated at 5480-5496 gallons of 28% acid, if	' with a thru tubi		ne. The A-Zone will be 11 be acidized with 3000
A t the present time the 96% W.C. which is unecon	is well is produci		
REPAIR WELL (Other) Change Zones	MULTIPLE COMPLETS  ABANDON*  CHANGE PLANS  X  RATIONS (Clearly state all perti	Completion or Recom	ADANDONMENT*  ts of multiple completion on Well pletion Report and Log form.)  s, including estimated date of starting any cal depths for all markers and zones perti-
NOTICE OF INTEN		Nature of Notice, Report, or	Other Data  QUENT EBPORT OF:  REPAIRING WELL
14. PERMIT NO.	15. ELEVATIONS (Show whether 2078 G.L.	r DF, RT, OR, etc.)	T28N R51E 12 COUNTY OR PARISH 18. STATE ROOSEVELT Montana
See also apace 17 below.) At surface  1980 from the North 11	ne and 1980' from	the East line	East Poplar Unit 11. SEC., T., B., M., OR BLK. AND SURVEY OR ASEA C SW NE Section 15,
8. ADDRESS OF OPERATOR  P.O. BOX 547, Poplar, M  4. LOCATION OF WELL (Report location of		Billings, Nonda a	9. WELL NO.  NO. 32  10. FIELD AND POOL, OR WILDCAT
2. NAME OF OPERATOR  Murphy Oil Corporation		DEC 3 1973	East Poplar Unit 8. FARM OR LEASE NAME  East Poplar Unit
1 01L GJ .0A8 CJ	ule to drill or to deepen or all TION FOR PERMIT—" for our	RECEIVED	Fort Peck 7. UNIT AGREEMENT NAME
SUNDRY NUT	SEOLOGICAL SURVEY	CONTACTOR	BLM-A-029305-A 6. IF INDIAN, ALLOTTEE OR TRIBE NAME
SUNDRY NOT	MEN' OF THE INTE	RIOR verse side)	5. LEASE DESIGNATION AND SERIAL NO.

·				Kella
(134) 1000/	UNITED STATES MENT OF THE INTE	SUBMIT IN TRIPLICATE (Other instructions on re		an No. 43-R1424.
G	EOLOGICAL SURVEY	<del></del>	BLM-A-0293	
SUNDRY NOTI (Do not use this form for proposition "APPLICA")	CES AND REPORTS als to drill or to deepen or plu TION FOR PERMIT—" for suc	g back to a different resorvoir approposale)	6. IF INDIAN, ALLOTTE	E OR TRIBE NAME
OIL GAS WELL OTHER		JAN 2 1 1974	Fort Peck 7. UNIT AGREEMENT N. East Popla	•
2. NAME OF OPERATOR			8. FARM OR LEASE NA	ME .
Murphy Oil Corporation			East Popla	r Unit
3. ADDRESS OF OPERATOR		Billings, Montana	9. WELL NO.	: 4
P.O. Box 547, Poplar,  4. LOCATION OF WELL (Report location cl.		ny Chata Paguiraments	No. 32 -	N WILDOLT
See also space 17 below.) At surface	earry not in accordance with a	by State requirements.	East Popla	r-Unit
1980' from the North 1	ine and 1980' from	the East line	C SW NE See	٠
14. PERMIT NO.	15. BLEVATIONS (Show whether	DF RT GR etc.)	T28N: R51E	I 18. STATE
	2078 ' G.L.	57, 11, 41, Car,	Roosevelt	Montana
	<u> </u>		_ <del>-</del>	
16. Check Api	propriate Box To Indicate	Nature of Notice, Report, or C	Other Data	
NOTICE OF INTENT	TON TO:	BUBBEQI	DENT REPORT OF:	
TEST WATER SHUT-OFF	CLL OR ALTER CASING	WATER BRUT-OFF	REPAIRING V	WELL
FBACTURE TREAT	ULTIPLE COMPLETE	PRACTURE TREATMENT	ALTERING C	1-1
<del></del>	BANDON*	SHOOTING OR ACIDIZING X (Other) Zone Chan		MI.
(Other)	HANCE PLANS	(NOTE: Report results	of multiple completion	on Well
17. DESCRIBE PROPOSED OR COMPLETED OPER proposed work. If well is direction nent to this work.)		ent details, and give pertinent dates, cations and measured and true vertice		e of starting any
A 5-1/2" C.I. bridge pl The A-2 and A-3 Zones was acidized as follows to 1000 PSI. Broke for sure and packer. Spott	vere perforated from the second secon	om 5480-5496', 4 holes n salt water, set packe PSI, 1/4 BPM injection er, and repressured cas	per foot. The er, pressured c rate. Release sing to 1000 PS	well asing d pres-
Pumped 3000 gallons of added.	28% HCL with inhib	oitor, emulsion breaker	and sequestin	g agent
,	Mayimm Thiostic	on Rate 1-1/2 BPM	REFE	江海南
•	Minimum Injection	·		2)
	Maximum PSI	3400#	JAN 27	i,
	Minimum PSI	900#		
	ISIP	600#	CASSES	
	10 Min. S.I.	500#	CASPER, WYGM	No 1.
Workover Potential: 24	Hr. Test 213 BFP	D 6 BOPD 207 BWPD 9	7% W.C.	
				• -:
			• • • • • • • • • • • • • • • • • • • •	
			•	•
				<u> </u>
18. I hereby certify that the foregoing is t		District Superintenden	i i i	
SIGNED // STALLE			t DATE Januar	<u>. y 10, 19/</u> 4
(This space for Federal or State office		JISTRICT ENGINEER		1-24
APPROVED BY CONDITIONS OF APPROVAL, IF AN	Y:		_ DATE	
				-



Budget Burcau No. 42-R-355.3. Approval expires 12-31-55. U. S. LAND OFFICE Billings i 1354 Serial Number BLM-A 429305-A. VON LEASE OR PERMIT TO PROSPECT ..... ITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY FORMATION RECORD OG OF OIL OR GAS WELL LOCATE WELL CORRECTLY Company MURPHY CORPORATION Address B-13 Behner Bldg, Billings, Montana Lessor or Tract Field East Poplar State Montana Well No. 32 Sec. 15 T. 28N R. 51E Meridian M.P.M. County Roosevelt Location 1980 ft. S. of N. Line and 1980ft. W of E Line of Section 15 Elevation 2088 KB The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records. Signed Harold Milam
TitleDist. Production Superintendent Date November 2, 1954 The summary on this page is for the condition of the well at above date. Commenced drilling March 22 , 1954 Finished drilling April 21 , 1954 OIL OR GAS SANDS OR ZONES (Denote gas by G) No. 4, from 5792 to 5812 No. 1, from 5497 to 5503 No. 2, from 5636 to 5645 No. 5, from _____ to ____ No. 3, from 5654 to 5666 No. 6, from _____ to ____ WATER SANDS **IMPORTANT** No. 3, from _____ to ____ No. 4, from _____ to ____ No. 2, from ..... CASING RECORD Perforated Sixe casing Weight per foot Threads per inch Amount Kind of shoe Make Cut and pulled from Purpose Prom-9-5/8" to have a complete his ory of the well. Please state in detail the dates of redrilling, together its results. If there were any changes made in the casing, state fully, and it any casing was not a light and it any casing was not a light and it and the casing state and it and rember at in the test with state tand of material used, position, and results of pumping or bailing. Not 1 680 22, Howco 36 its results. HISTORY OF OIL OR GAS WELL MUDDING AND CEMENTING RECORD Size casing Number sacks of cement Method used Mud gravity Amount of mud used Where set 9.-5/8. ...992.55  $\Delta \rho \Omega$ Pump & Plug 5-1/2" 300 Pump & Plug PLUGS AND ADAPTERS Length ..... Heaving plug-Material Depth set .....

Adapters-Material.....

1984

# OIL AND GAS CONSERVATION COMMISSION OF THE STATE OF MONTANA

BULLINGS OR SHELBY

#### WELL COMPLETION REPORT (NEW WELLS ONLY)

		•	(NEW WI	ELLS ONL	Y)	1 1 1		A			
Owner	MURPHYCORPORATION	•••••	••••••	Field	East	Poplar	1:E C+ 1:111.	,, ,,,			
Street	B-13 Behner Buildi	ng		Pool	East	Poplar	•••••				
CityB	illings	State Mc	ntana	County	Roos	evelt	•••••••••	•••••			
Lease Nar	nc BLM-A 129305-A		••••••••	Well No	32	Acres in	Unit				
Location	SW NE	Sec1	5Twp28	NRange	51E Ele	evation50	88.KB				
	)										
	crude oil producing wells							•			
		•		ON TEST							
Dates Test	Commenced Octobe	r 24 ₁₉ 54			t Complete	October 25	10.5	4 Hour7A - M			
Length of	Test24	Ilours	==	Minu	tes.	1	······ , 10.8				
For Flowh	ng Well:			For Pun	ping Well:						
Flowing p	ressure on Csg	L	bs./Sq. In.			sed					
	Flowing pressure on TbgLbs./Sq. In										
_	In. No. F			Size of	working ba	rrel 12		inches			
	inches. Make				2=3/8	In. No. F	t. runi	5768			
_	In. Shut in pr						į				
	Well, was this well flowed										
			Cu. Ft. gas	per Bbl. oil	. Result o	of this test (Bl	ols. net oil	per 24 hours.)			
	tio of this well isn		Cu Tre	of one nov l	3hl of oil		•				
Per cent o	f water produced during t	his test.	32%	or gas per i		1	,				
Gravity of	oil produced during this te	est (corrected to	A. P. 1. 60	 ° F.)	40_4	!					
	ipe line or other carrier										
_											
	well <b>12005</b> , perforated or tro	ented	.521-54.	<b></b>	No.	Qts. used					
If Perfora	ted:	**		If Acidiz	ed:			_			
No50	Size 1/2			No. Gals	. used10	00 gallons.	etching	acid			
	shot, perforated or treate										
Shooting, 1	perforating or treating cor I produced from this well	npany	.ng.lls	DOMETT		802		•			
	completedApr.il21										
	5.790							P.			
Tob or bay	/	rt. Total dep		•	₩		•				
				RECORD		· · · · · · · · · · · · · · · · · · ·					
Size	Put In Well Feet Inches	Polled O	out Inches	Left In Feet	Well Inches	No. Sacks Cement Used	Packers	Float Collars and Shoes			
9-5/8"	992.55	$\mathbb{R}$	ECE	IVED	)	390		Howco			
5-1/2"	58191			·		1	,				
0-1/2	1 2013-	<del> </del>	<del>-NOV 3</del>	1954		300	<del> </del>	Howco			
	<u></u>						<u>.</u>	<u> </u>			
				VATION CONIMIS		İ					
		CF TH	E-STATE OF M	ONTAHA" = "ELELI	HG3		i				
======	<u> </u>		<del></del>			<u> </u>	1				
Agent's ac	dress B-13 Behner	Building	*************************		*******	MURPHY	CORPORAT	ION			
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	DITINGS NO	n cana	•••••	. /	(Signature)	1)	ist, Pro	d. Supt.			
Phone	2-2131							\ <del></del> /			
	····			OF WELL							
	Show all formation, especi	ally all sands o	nd characte	r and conten	ts thereof.	Describe Cores.	On other e	ide			

OVER

SEE ATTACHED SHEETS

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## COMPLETION PARA

#### CASING:

- 3-22-50: TaD. 1015' Ren 23 joints (980,55') of 9 5/8", J-55, 36%, Srd thd., R-3, Class "A" American casing. Landed 121 below R.K.B. and sat et 992,551. Ren two Homeo centralizers at 7831 and 9761. Cemented with 130 sacks of Ideal such cement and 260 sacks of Ideal bulk coment with 2% GaOl in the last 200 sacks. Plug down at 6:15 A.M., 3-24-54. Euryod plug with 800%. Circulated approximately 100 sacks of clean communt. Tyleased pressure, float held ok.
- T.D. 5521! Ran 188 joints (5809,10!) of 5 1/2", J-55, 15.56%, Swd thd., R-2, American casing. Landed 9.901 below R.K.E. and set ut 58191. Howeverote-type scratchers at 5479-55214, 5622-56949 and 5780. 5817'. Five Howco centralizers at 5147', 5538', 5652', 5725' and 5802'. Walliburton automatic fill-up shoe at 5817' and Halliburton baffle coller at 5784'. Camented with 300 sacks of Pozmir. Plug down at 4:25 P.M., 4-17-5h. Dumped plug with 1000%. Released pressure, float held ok. Pipe robated freely while comenting. Tested 5 1/2" desing with 1000% for 30 minutes. No leaks. Found top of plug at 57811.

## COMPLETION:

E-15-516 FEWD 58211 Wippling up.

1,-20-54: PBTD 5812' Drilled plug and cement.

h-27-5h: PMMD 58121 Ran 186 joints (5797.931) of 2 3/80 tubing and handed 9,10 below R.K.B. and ast at 5768.13 . Displaced water with oil and perforated with Lene Wells tubing gum from 5790-58001 with 50 shots. Actidized with 1000 gallons of stching acid. Formation broke at 2000%. Injected 2.5 DTM at 1600#. Bled down to 1500# at end of job. Acid water to surface in 16 minutes; 10% oil, 90% soid water after 40 more Floring 70=90% water at the rate of 100-200 BFPD. Open flow OP 500%. Chlorides of water 16,000 PPM.

PETD 58121 Plowing to tank at the rate of 196-260 ETPD. CP 62号, TP 12号。 60~80% water。 Chlorides 13,000 PAM.

1/23-21/54: PETD 58124 Moving off rig. SLOP 825%, SITP 350%.

ا نياز ۽ 25 سيا PETD 3312) On a 24-hour test flowed 94,76 BFFD, 95% water.

山/26-27/虫: PDTD 58121 Shut In.

PBTD 5812: Flowed 108.20 barrels fluid with 5.41 barrels oil in 15 1/2 hours. CP 1175#, TP 200%.

4-29-54: PSTD 58121 Would not flow into tenk battery. Open flow to pits 100 EFFD, 12% od.

4-30-54: PBPD 5812' Shut In.

5-1-5h: PBTD 5812: Shut In.

5-2-54: PBFD 58121 Ram 500 gallons Dowell plugging material. Pressure climbed from 1400% to 3700% with 450 gallons in formation. Bypassed 50 gallons up easing and acidized with 3000 gallons etching acid. Average injection rate 2.7 BFM at 1800%. Flowed spent acid to surface in 7 minutes, formation fluid in 32 minutes. After cleaning to pits, flowed at estimated rate of 100 BOPD and 400 EAPD. Open flow.

5/3-6/54: PRID 5812: Testing.

5-7-54: PBID 58121 Open flow. 4.75 BFFH, 88% water. CP 600#, TFP 75#.

To drop from report.

TUBING:

FM: Ren 187 joints (5790.11') of 2 3/8", EME, k.70%, J-55, R-2 Amer-icen bubing, open ended with collar an bottom. [-19.5]:

> Landed below R.E.B. 9410 Top jt. 2 3/8" tabing
> 185 jts. 2 3/8" tubing, open
> ended with cellar on bottom 31.34

5727.69

Bottom of tubing

5768,331

# 

SIFE OF LOC	INTERVAL LOGGED
Schlumberger Electrical Survey 2"	771-58204
Schlumionger Electrical Survey 5"	<b>2000</b> % <b>-58</b> 20%
Schlutbarger Microlog 5"	20001-583.81
Schlunberger Microlog 24"	53001-583.81

## LOG TOPS

	Deach	Detan	Thickness
Judith River	767	÷1321	
Eagle	1161	+ 227	
Hiobrera	2023	* 65	
Greenhorn	2362	- 27i;	
Granaros	2570	- 432	
D. Middy	2723	≈ 635°	
Middy	2950	≈ 862	
Skull Crk.	2983	~ 895	
Dakota Silt	31/12	~1054	
Morrison	3l:97	-31j09	
Salit	3588	-1500	
Rierdon	391.8	-1830	
Paper Sh.	L270	~2182	
Piper Is.	4350	<b>~226</b> 2	
Cypsua Sprgs.	j.j.01	~2313	
Spearfish	<u>ц</u> 600	<b>-</b> 2512	
Amedon	<b>JYSSO</b>	~2132	
Heath	f ¹ 87 ¹ 8	<b>-276</b> 0	
Otter	5000	-2912	
Milobay Sd.	STID	43052	
Kibbey Ls.	5295	~3207	
Madison	5387	<i>~</i> 3299	
A.J.	5472	-3384	34 141
A2	5 <u>1</u> ,80	<del>-</del> 3392	
ž.~3	5450	~3402	7 5
A <u>l</u> i	57:57	~3 <u>1,</u> 09	35¹
B1	5636	~32/18	81
3-2	5654	<b>-</b> 3566	179
3-3	5676	-3588	<u>်</u>
<b>2-1</b> ;	5707	~3619	Ƈ
3-5	5714	-3656	?
0-2	5781	<u>~3695</u>	
0-2	5792	-3704	3.63

## DRILL SISU IESIS.

- DST #1, 5493-5509, straddle packors, tool open 3% hours; tool opened at a remove the (A Zone) likelo AM, 4-6-54 with good blow, decreasing to fair the first blow in 2% hours. Cas to surface in 3 hours and 2% and Arabic as minutes. Recovered 30% clean oid, 5165% said water. The Arabic as Tool would not close for whit-in pressure. ISHEP: 10% for the 26% FRHFP: 2503% Hydro: 3330%. Bothom packer hald okay.
- not for state 5653, straddle packers, tool open & hours; tool opened at Note IF Pro-(5-2 Sone) 8:12 AM, A-13-5A, with very weak blow, increasing that the slightly after 3 hours. Recovered 30° muddy old out to the salt water, 1920° salt sulphur water. IBMFP: 15% 15% 15% to a Ax FEMFP: 985% (20 min.) PMSIP: 2690% Hydro: 33556.
- DM Fig STFT-5795, single packer, tool open I hours took opened to Arko (G Some) PM, 4-35-54, with fair blow which continued throughout test. Recovered 950° gas, 90° clean oil, 45° and cut oil, and 30° oil out mud with no never. IEHFF: 25% FRHFP: 85% (20 min.) BHSIP: 30934 Hydrox 54557.

## CORE ANALISIS BEPORTS

Sample No.	Representative of Test	Midpoint of Surole	ඉදුන්ගෙදී		bility Tert.	Effective Percent		sity Matrix	Saturation % of Poresi Resid. 011	
N.S. 1 2 2 4 5 6 7 8 9 10 11 N.S. N.S.	0088 #1 5490=5 5490-95 92-93 93-94 94-95 95-96 96-97 97-98 98-99 5499-5500 5500-01 01-02 02-03 03-25 25-29-5 29-5-33 33-46	548 Racovered	1년 1	0.06 U.T. 0.05 0.36 0.37 0.09 U.T. 60. 2.3	0.52 0.03 0.13 0.13 0.29 4.92 0.88	0.1561267686	2.67 2.66 2.59 2.67 2.65 2.68 2.65	2.71 2.71 2.71 2.71 2.71	Tr. Tr. 0.0 0.0 7.5 7.7 Tr. 3.6 0.0	90.9 94.9 16.9 79.3 846.5 15.8

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<i>(</i> 2 4	Representativo			Pormosi		Effective Porcsity		aity	Seturation & of Fore	
Sample Moz.	of Feet	Sample	Pontage	Redies	Verte	Percent	Pulk	Matrix	Magina Cin	i va t
N.2 134567 18 5 19012 24 56 7 8 9 0	5629-30.5 30.5-31.5 31.5-39 33-34.5 34.5-35.5 35.5-36.5 36.5-37.5 37.5-38.5 38.5-48 48-49 49 50 51-53 53 54 55 56 57-58 58-60 60-61 61-62	2 Recovered		1.04.06 2.6.6 19.9 2.01.3.2.70 37.7.89 87.7.89	0.24 0.03 1.05 0.05 1.05 0.05 1.05 1.05 1.05 1.05	6.58 14.01 9.51.6 8.41 9.5.67 3.50 9.5.67 3.50 9.5.67 3.50 9.50 9.50 9.50 9.50 9.50 9.50 9.50 9	2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.	2.70 2.67 2.67 2.63 2.63 2.63 2.64 2.66 2.66 2.66 2.66 2.69 2.69	9., 5.537 20.7 27.2 17. 0.00 10.00 10.00 10.00 10.00	91. 81. 82. 84. 93. 39. 70. 51. 53. 45. 45. 843.

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SORE AN	ALYSIS REPORT	's Cont'd	to or any successful to the success to the success of the success		na mana manadala at talah 1888 at 1884 at 1884 a
Sample		Effective Porosity	Permeability Millidarcies Horis, Vert.	Satura S Pore S	paca
Hornson	Daoth, Fost		Fi01 Les Yell Les	Production Care	
	CORE #3 578	2-95 Escovered	1 391		
N 9 3 3 3 4 5 6 7 8 9 0 1 2 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 2 3 4 4 4 2 3 4 4 4 2 3 4 4 4 2 3 4 4 4 4	5755-81 5781-82 5782-83 83-84 84-85 85-86 86-87 67-88 88-89 69-91 91-92 91-92 93-94	4.6 0.2 9.6 1.5 0.5 0.8 4.8 9.0 15.0 16.7	-0.01 0.04 -0.01 0.07 -0.01 -0.01 -0.01 0.01 0.10 0.10	5.0 0.0 1r. 0.0 39.2 0.0 0.0 29.8 23.3 30.5 20.4	52.2 96.7 96.8 53.5 92.5 86.4 61.3 61.3 69.4
	e re de de la composition della composition dell				
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Page 5-11

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Sample No.	Ruprosentative of Feet	Midpoint of	_Footsge_	   Permeab   Radiol		Effective Percent	Der	metrix	Saturation Saturation Service Service State Service Se	Spa
4456769012945	5795-96 96-97 97-98 5798-5800 5800-01 01-02 02-03 03-04 04-05 05-06 06-07 07-08	Recording to the second	a 20°	0.06 0.06 3.29 0.37 0.25 0.39 0.39	5000/ 5000/ 0.47 0.34 0.48 0.48 0.34 5000/ 0.06	9.0 9.7 15.6 12.5 14.2 15.6 13.8 12.7	2.53 2.44 2.25 2.25 2.25 2.25 2.25 2.35 2.35 2.35	2.70 2.70 2.69 2.69 2.69 2.69 2.67 2.67	18.3 28.4 36.5 30.6 23.6 23.6 43.6 29.6	68 35 47 48 43 47 68

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## CORE RESCRIPTIONS

## Some No. 1, 5190-5540, recovered 58%;

- 0. 2. 10, 21, 34, 30, 28/ 31, 43, 23, 20, 24/ 26, 21, 23, 22, 23/ 18, 16, 23, 20, 18/ 33, 26, 18, 17, 23/ 25, 25, 17, 15, 20/ 36, 25, 23, 16, 21/ 17, 17, 19, 13, 11/ 11, 11, 12, 15, 25/ 13, 18, 18, 24, 11/ 16, 71, 20, 21, 18/ 22, 23, 28
- Cole Arena 2
  - 210° Anhydrite, light gray, microcrystallins, hard, demit. No Show.
  - 4908 Limestone, dark gray, amorolous, hard, dense, except for several tight vertical fractures, dull goldenyellow fluorescence and slight oil oder along fracture planes, otherwise no show.
  - MOT Macatone, dark gray, exorphone, reserves fairly tight vertical fractures with a fair oil eder and epotty greenish-yellow fluorescence; no show in matrix.
  - 6% Limestame, dark brown to gray, very fine crystalline, highly fossiliferous, thin stylclites scattered throughout; unit looks wet. No 5 how.
  - 15°6" Limestone, medium brownish-gray, collitic, very purous and permeable, crumbly; unit looks set. To Show.
  - 468 Anhydrite, light gray, microsrystallane, dem sy broncloted partings filled with dark brown, empsylous limestone. No Show.
  - 5.0" Deletite, medium brownish-gray, amorphous, shightly porcus, questionably permeable, argillaceous it loves two feet. No Show.
  - 14.00 Ambydrite, medium grey, enorphous, hard, dense. Ha Show.

## Sore No. 2, 5629-5662, recovered 334:

- 6, 7, 14/16, 13, 14, 14, 13/12, 10, 9, 7, 15/17, 16, 17, 14, 16, 16, 17, 16, 17, 16, 16, 16, 16, 16, 18, 18, 18, 18, 16
- 1962 Anhydrite, medium gray to black, microcrystalling, hard and dense. No Show.

Limestone, medium brown, fine crystalline, many small dark calcite crystals, fair porosity, questionable permeability, fair oil odor, spotty bright galline yellow fluorescence and good oil stain throughout; single fairly tight vertical fracture in upper one foot; slight oil stain and spotty golden-yellow fluorescence on fracture planes.

146° Limestone, dark gray, amoughous, dense, except for numerous short irregular functures, slight oil oder and spotty medium golden-yellow fluorescence on fracture planes. No show in matrix.

Limestone, dark gray, microcryptelline, hard, fair to good porosity and permeability, fair oil ofor, aporty dull yellow fluorescence in matrix; theeding oil in upper one foot.

Anhydrite, light to medium dark gray, microssystalling, hand and dense, numerous short, irregular black dolomitte shale partings. No Show.

Limestone, medium brown, fine crystalline, fair percenty and permeability, stylelitie, fair oil odom, aporty bright golden-yellow fluorescence; bleeding oil in top one foot.

Limentone, medium to dark brown, fine crystalling, fair purceastly and permeability, alight oil odor, spotty golden fluorescence, for spattered short, tight, vertical fractures, several thin alternating dense and purous somes in lower one and one-half fort.

Core Ev. 3, 5755-5795, recovered 39%:

0. T. 15, 21, 27, 27, 27/22, 22, 23, 24, 25/34, 19, 13, 23, 21/12, 17, 17, 17, 18/15, 11, 12, 13, 20/14, 17, 15, 15, 17, 19/10, 17, 15, 12, 13/15, 10, 10, 15, 32

- C16" Limertone, dark gray, amorphous, dense, ambiditie:
- 5707 Polomite, medium gray, smorphous, hard end deuses. No Snow.
- 640m Mamestone, dolomitic, medium gray, amorphous, hard and dense. No Show.
- 2.03 Limentone, medium gray, emorphous, hard and dense; inclusion of light gray dolomite. No Show.

- 8°6" Limestone, slightly dolomitic, medium to dark gray, amorphous, dense. No Show.
- 1965 Limestone, medium gray, amemphous, decree; healurist of anhydrite. No Show.
- 1860 Shele, black, slightly delocitie, pyritis.
- 246" Idmestone, medium brownighterny, amorphous, husi, dense, except for several short, irregular, filling tight fractures, spokty golden fluorescence and mar oil stain on fracture please.
- 5%6% Minestone, medium gray, microorystalline, thin elternating porcus and dense zones, fair spotty yellow fluorescence and odor in porcus zones.
- Limestone, medium brown, very fine crystalling, slightly porous and permeable, open vertical fracture through unit; slight oil odor and spetty dull Thorascence in matrix; even bright golden fluorescence end good oil odor along fracture planes.
  - 200 Limestone, dark brownish-gray, vary fine crystalling fair porosity and permusbility, several open vention? fractures through unit, good old stain, clar small even modium golden fluorescence in nothic and on fractures system into unit above.

<u>ings Ha. A.</u>, 5795-5815, reportered 20'4, G. T. 10, 15, 12, 12, 8, 13, 11, 10, 11, 16/6, 10, 45/27, 27/23, 25, 27, 41, 24/

Since the state of 
7%6% Gimestone, dark gmy. amurphous, hard and dance. Fo Show.

## MUD FROCRAH SUMMARI

#### MUD ADDITIVES USED:

ACUSE Learner Johnson J.06	saeko	Banalona come come es es L	sasite
652 000 X - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 -		Driscose masses LS	
Canadic Sodam ==========		Reroldmonana 2022	
Parament	exchs	Defermance	caus
Hill Sommer on was a sail	sacks	(Five gellen came)	
Mica to Marana a maran a maran	35.58	Lignorement - more 11) %	इस्ट्रोलंड
To an poly of the second secon	each	Willemson assessment 107	pecies
State Alleranamentally	eacks	Tannessee	sauks.
220501	secks	Commence Of Lumer Commence St.	bhile.
Mid Coppenson	111.87		
DIBYE S BURNEL WORK PRODUCE TO SEE			
TOTAL MUD COST: \$6.	489.73		

#### SUMMARY:

Drilled surface hole to 802 feet with 10.3# per gallen mud. At this point gas began to break through; circulated and mixed mud to 11.1# yor gallen and 62 second viscosity. Finished drilling the surface hole at a depth of 1015 feet. Len Schlumberger Electrical Survey, and then rea 23 joints (980.55) of 9 5/8" casing without difficulty.

Drilled but from under the surface caping to approximately 4000 feat with water and some gel. At this point a lime-lignox emulsion and groupen was stored and it was maintained to a down of 5617 foot with edditions of line, lignox, carbonox, caustic soda, tennex and crude oil. At 5617 feet the well blew out and caught fire while the mud was 10.5% per gallon and 180 second viscosity. Because of the blow-out there was approximately 13% excess oil in the mad, and the mad was extremely gan fluffed. Rerold was added to bring the weight to ll#/gallon and tergantal was added to remove the gas from the mud. Discoss and lignor were added to emulaify the excess oil; even so, after each trip there was will on two. too of the pits. The well was drilled from 5617 feet to a total dapth of 5822 feet with a weight of 11.0# to 11.2#/gsllon and 55 to 70 second viscosity. hulls were added before easing the C Zone in order to prevent less of circulation. A saill smount of and was lost continuously from 5755 Past until the 5gr ensing one demonist. Four cores and four drill observes as were run without further difficulties. Ran Schlueberger Electrical Survey and diozolog before setting 5800 feet of 52" ceaing.

Mid characteristics while drilling were as follows:

Deolh	Height	Viecosity	Seel_rese	Ph Len
900	11.1	62	F.7 427 55	4>5
3573	10.1	38	. Tarmes	<b>~</b>
4025	10.3	58	<b>⇔</b> ຍ≃	<b>a.</b> v
4232	10.0	56	10.5	12
4690	10.4	65	15.0	12
<u> </u>	3.01	<b>ဂ်</b> ဉ်	10.6	12
52,27	10.7	· 56	12.4	11.5
5490	70.8	60	12.6	12
56.42.	11.2	66	9.4	73
5815	11.0	74	8.0	13.

# DRILLIEG EIT AND TOTEO RECORDS

Run No.	Make	5).29 5).29	Tyge	Ser. No.	From	no To	_Daoth_,	ние туеО 
12345678914234567	Hughes	1/4 12 1/4 12 1/4 12 3/4 13 3/4 13 3/4 13 3/4 14 3/4 15 3/4 16 3/4 16 3/4 16 3/4 16 3/4 16 3/4 16 3/4	034 034 034 034 030 030 030 034 034 030 030	Re-tip 18020 11647 81542 52620 52077 52661 52081 52072 80353 65201 54814 42666 42674 52667 42674	0 461 1015 2952 3418 3710 4132 4448 4678 4678 4989 5247 5387 5430 5629 5048 5755	461 1015 2932 3418 3710 4132 4448 4678 4989 5247 5387 5490 5629 5548 5755 5815	1767 3402 3741 4110 4417 4660	7/4 2 2 3/4

# DIAMOND CORE BIT RECORD

Core No.	Maka Maka	. Mag	Ser. No.	No. 001	en emanarem me un	Footage
7	Christianson	5 3/2"	A 757	5490	5548	58
2	Christianson	6 1/2"	V-42J.	5629	5662	93
3	Christieuscu	5 1 <i>∫2≈</i>	V=421	5755	5795	40
<i>'</i> ,	Christianson	6 1/2=	7-421	5795	5835	
				Criot	হিতত গ্ৰহণ	

#### 

2200-2373 Shale, modium gray, milty; slitetons, light gray, micaceous; trace of shale, grayish-brown, white specks, calcareous; erro sandstons, light gray, very fine grained, micaceous, glaucomitic, calcareous.

2370 Sample Top Greenhorn.

2370-2425 Shele, grayish-brown, white specks, calcareous; shale, light gray, silty; trace of brown amorphous limestons.

2625-2540 Shole, gray, white specks as above; shale, dark gray, nice-

2540-2720 While, dark gray as above; shale, light gray, stilty.

Z/20 Samole Top Useer Muddy.

2720-2880 Trace of sandstone, light gray, very fine grained, poorly camented, micebeous; shale, medium to dark gray, micebeous, slightly glauconitic.

2550-2970 Alele, as above.

2970 Manale Top Meddy.

2970-3640 Sendatone, light gray, very fine grained, glauscaltic, mistceous; shale as above.

3080-3200 Stale, light to medium gray, microsous.

5100 Sessie Ten Inketa.

3100-3260 No samples.

3260-3540 Sandstone, light gray, very fine grained; chale, medium gray; shale, dark gray.

3540-3580 Shale, as above; trace of mandatone as above.

3-80 Sample Top Swift.

3580-3720 Eundatone, light gray, very fine grained, glausonitie, culturaeous; some dark gray shale.

3720-3780 Trace of sandstone as above; shalo, dark and medium gray.

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sture.

)780-3820	Shale, medium to dark gray; shale, brown, micacecus
3820-3910	Shele, light greenish-gray, calcareous; shale, brownish-gray; some dark gray shale.
2930	Semole Two Riendon.
3930-4320	Sandatone, light gray, very fine grained, fairly well comented, calcareous; shale, hadium gray, calcareous; shale, madium gray.
<b>4</b> 010 <del>-</del> 2,100	Shale, light greenish-gray, calcareous; shale, medium gray; some dark gray shale.
43.00=43.20	Shales as above; trace of light brown, granular limestone.
4720=41 <i>4</i> 0	As above; limestone, medium brown, amorphous, very argilla- ceous.
.1140=4850	As above; trace of mandatone, light gray, very fine grained, glauconitic, calcaraous.
4290-4263	Limestone, ten, zmorphous, dense; shale, light greenlah-gray, calcareous; shale, medium gray; shale, dark gray.
<u> 4263</u>	Sample Top Figer Shale.
4263-4310	Scale, brick red; shale, medium greenish-gray, calcareous.
4310-4350	as above; trace of limestone, medium brown, enorphous, dense; trace of white ambydrite.
4270	Semole Top Piper Idmestone.
4050-4393	Limeatone, medium to dark brown, amorphous, dense; trace of light and dark gray shale.
4393-4400	Limestone, medium brown, very arenaceous; some limestone as above.
1.100	Sample Too Gypsum Sorings.
4400-443)	Shale, light greenish-grey, calcareous; shale, medium gray; some limestone as above.
1430=4580	Shales, as above; trace of red shale; some tan emorphous limestone.
4520-4530	Shale, light greenish-gray, calcareous; shale, dark gray; shale, red; truce of green shale; trace of light gray lime-

----

tan, amorphous, dense; some white subjurito.

## AND Some Tre Bearing

4563-3650 finile, red, very sility; stale, reconlab gray, cellingurg, artydrite, white; shale, saffur to derit gray.

4-10-4673 Sendstone, red, very fine grained, adightly calcarence subjection core shale and enhydrate as obvery conditional trace of buff, emorphous limestone.

## MATERIAL Section Top Anedens.

2573-2710 Polomita, pink, microcrystalline, dense, slightly emarginition shale, brick red; shale, medium gray, calcoreous; some dark gray shale.

4710-4766 As above; siltotone, red, caudy, calcarsons, aphydritic

8750-8700 frace of dolouits and shake an above; limerious, dight gray, nicroscyptolline, dense; shake, dight gray, calcarons.

ATTO AMES linestone and shale as above; thele, ref and purple.

4520-4590 (insatons, unlies brown, citropystally epsickes, rut, are; (calcareous) and purple.

## A850 Emple Too Heath.

(265-2000 Shale, as above; wandstone, red, fine grained, fair), wall, warranted, tight, calcareous.

1921-4960 Shale, as above.

4969-1976 is above; tames of tan, amorphous limestans.

4970-1980 No sample.

1980-1993 Stale, modium to dark gray; shale, zed.

## Sample Top Otter.

2007-5030 Trace of bright green shale; linestone, tan, diersel, silling dense; shale, dark gray; shale, red.

5353-557) Idmesiona, light grayish-brown, pseudo-colitic; linestrie, light gray, microcrystalline; shales, red and gray as above

5070-5133	Limestone, light brownish-gray, microcrystelline, dense; thate, dark gray; trace of red shale.
53.072 Marian	Sample Too Kibbey Sandstone.
503545230	Candstone, red, very fine grained, fairly well semented, anhydritie, calcareous; shale, light greenish-gray; shale, dark gray.
523045295	Some sandstone as above; shale, rad, gray, purple and black.
<b>3</b> 392	Sample Top Kibber Limestone.
5295-5300	Limertone, ten, emorphous, dolomite inclusion, dense; some sandstone and shale as above.
5020~5310	Sandatone, red, very fine grained, medium sorting, fairly well cemented, slightly calcaveous, anhydrithe; shake, nedium grayish-green, calcareous; trace of limestone as above.
5360-5 <u>L</u> EG	Shale, dark gray to black; some shale as above; some sund- stone as above.
5400	Sample Too Madison.
5400-5490	Ashydrite, medium brownish-gray, microcrystalline, dense; shale, medium gray; shale, red; trace of sandstone as above; shale, black.
5430+5450	As above; some limestone, light brown, atorphous, danse.
5450=5490	Limestone, medium brown, pseudo-colitic, slightly perony; subydrite, white, amorphous, soft; shale, red and dark gray.
5490-5548	Core No. 1, recovered 58 feet.
5548~5570	Limestone, medium brown, amorphous, dense; limestone, brown, fine crystalline, granuler, porous; shale, red and medium gray; some anhydrite; trace of ten emorphous delembte.
95°70~562 <b>0</b>	Shale, red and gray; some amhydrite; trace of limestone, amorphous, brown, dense.
5620-5629	Dolomite, tan, microssystelline, slightly granular: lime- stone, dark brown, amorphous; shale as above.
5529=5652	Cors No. 2, recovered 33 feet.

5652-5680 No semples,

5880-5755 Anhydrite, Light gray, soft; delouite, median graphshabrom, emarghous; limestone, median brown, vary file crystalling, dense.

5755-5795 Core No. 3, recovered 39 feet.

5795-5815 Core No. 4, racovered 20 feet.

TOTAL DEPTH: SIM 5816 squals 5821 Schlumberger

#### ELECTRO LOG DATA

Type of Log	Interval Logged
Electrical Survey	77'-1015° 1015'-5820'
Hicrolog	2000°=5818°

**Formation** Schlumberger Tops Judith Rivor----- 765 (+1323) Greenhorn Description of the Control Huddy------2950 (- 862) Swift ?----3516 (c1428) Rierdon-----3917 (-1829) Piner Shale-----4265 (2177) Spearfish-----4600 (-2512) Ams den -------4712 (=2624) Heath======4850 (~2782) Otter----5000 (c2912) Kibbey Sandstone ------5140 (-3052) 

#### EAST POPLAR UNIT WELL #32 SW NE Section 15-T28N-R518 Roosevelt County, Montana

- April 9, 1954: D.S.T. #1. Tool open 32 hours. Opened with good blow; decreased to fair blow in 22 hours. Gas to surface in 3 hours 20 minutes. Recovered 30° clean oil, 5165° salt water. Tool would not close for shut in pressure. IBHFP: 26#, FBHFP: 2503#, Hydro: 3330#. Bottom packer held okay. Reamed core hole and drilled to 5617°. Mud weight: 10.5#. Viscosity: 180.
- April 13, 1954: D.S.T. #2. Tool open 4 hours, opened with weak blow decreasing to very weak blow after 12 hours, that lasted throughout test. Recovered 60° gas, 5° clean oil, 565' salt water. IBHFP: 15#, BHSIP: 2663#, FBHFP: 220#, Hydro: 3463#. Shut in 20 minutes.
- April 14, 1954: D.S.T. #3. Tool open 4 hours, shut in 20 minutes. Opened with very weak blow, increasing slightly after 3 hours. Recovered 30' muddy oil-cut salt water, 1920' salty sulphury water. IBHFP: 15#, FBHFP; 985#, BHSIP: 2690#, Hydro: 3355#.
- April 16, 1954: D.S.T. #4. Tool open one hour. Shut in 20 minutes. Opened with fair blow that continued throughout test. Recovered 950° gas, 90° clean oil, 45° mud-cut oil, 30° oil-cut mud. No water. IEHFP: 28#, EHSIP: 8090#, FEHFP: 85#, Hydro: 3469#.

FREINED

PHV 7 - 1954

And the CF Grands

## EAST POPLAR UNIT WELL #32 SW NE Section 15-T28N-R51E Roosevelt County, Hontana

May 3, 1954: Ran 500 gallons Dowell plugging material. Press climbed from 1400# to 3700# with 450 gallons in formation. Bypassed 50 gallons up casing and acidized with 3000 gallons etching acid. Average injection rate 2.7 barrels per minute at 1800#. Flowed spent acid in 7 minutes, formation fluid in 32 minutes. Cleaned to pits. Flowed at estimated rate of 100 BOPD and 400 BHPD. Open flows

Hay 4, 1954: Testing. Test: Open flow, 5,43 BFPH, 35 per cent water with trace of mud. TFP: 100%, CP: 625%. Test not conclusive.

Installed a pumping unit

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PRV C- 1954

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#### EAST POPLAR UNIT WELL #32 SW NE Section 15-T28N-R51E Roosevelt County, Montana

March 22, 1954: Spudded 11:00 A.M., 3-22-54,

March 24, 1954: Set 980.55° of 9-5/8" casing at 992.55° with 390 sacks cement. Plug down at 6:15 A.M., 3-24-54. Bumped plug with 800%. Released pressure, float held okay.

April 19, 1954: Set 5809.10° of 5-1/2" casing at 5819° with 300 sacks Pozmix. Bumped plug with 1000#, held okay.

April 20, 1954: Drilled plug and cement to 5812°. Ran open end tubing to 5790°. Displaced with oil. Rigged up to perforate.

April 21, 1954: Set tubing at 5768.12°, Schlumberger measurement. Displaced water with oil and perforated 5790.5800°, Schlumberger measurement, with 50 shots. Acidized with 1000 gallons etching acid. Formation broke at 2000#. Injected 2.4 bbls. per minute at 1600#. Bled down to 1500#. Acid water to surface in 18 minutes; 10 per cent oil, 90 per cent acid water in 40 minutes. Now flowing 70 per cent to 90 per cent water at rate of 100 to 200 bbls. fluid per day, open flow with 500# casing pressure after 15 hours. Chlorids of water: 16,000 PPM.

April 22, 1954: Flowed in tank at rate of 100 to 200 BFPD. Tubing pressure: 125#. Casing pressure: 625#. 60 to 80 per cent water. Chlorides: 13,000 PPM. Rig released at 2:00 P.M., 4-21-54.

```
Coring Intervals:
Locations C 5W NE Sec. 15 T28N-B51E
                                               #1 Ch90-55he Rec. 50: A-3 & L
           Spacing - 160 acres
                                               #2 5629-5662 Rec. 331 B-1 & 2
Elevation: 2088 K.B. - 2078 Gr.
                                               #3 5755-5795 Rec. 39: C-1 & 2
Spudded:
           3-22-54
                                               #4 5795-5815 Rec. 20' 0-2
Completed: 5-8-5h
           5821; Schl = 5816; Drlr.
T.D.
                                                Drill Stem Tosts!
Prod. Zenes: C-2 (5790-5800')
                                                DSE //1 5193-55037 A-3 & L. Op 3h hrs w/good blw de-
           Schlumberger Tops
                                               creasing to fair blw in 25 hrs. Gas to surf 3 hrs.
              Depth
                      Datum
                               Thickness
                                               20 min. Rec. 30° cln oil. 51.65° s.w. Tool would not
                      +1321
               767
Judith River
                                               close for SI pross. IBMFP 26%, FBHFP 2503% Hydro 3330.
              2362
                       ~ 2711
Greenhorn
                                               DST #2 5632-41 B-1 Op 4 hrs. op w/wk blw decrsg to v.
              2950
                       -862
Muddy Sd
                                               wk blw after la hrs, lasted thrucut. Rec. 60' gas, 5'
                      ~105li
Dakota Silt
              31/12
                                               cln oil. 656' E.W. IBHFP 15 FBHFP 220 (20 min) BHSIP
                      ~2262
Piper Ls
              4350
                                               2663 Hydro 31:63.
                      -2132
              P550
Amaden
                                               DST #3 5642-53 B-2. Op h hrs, w/wk blw, increas sl after
                       -2760
              118118
Heath
                                                3 hrs. Rec. 30' muddy oil cut s.w.. 1920' salt sulf wtr.
                       -29:13
              5000
Otter
                                               IBHFP 15, FBHFP 985, (20 min) BHSIP 2690 Hydro 3355.
              51110
                       -3052
Kibbey Sd
                                               DST #4 5777-95 C-1 & 2 Op 1 hr w/fair blw which cont'd
              5295
                       -3207
Kibbey La
                                               thruout. Rec. 950' gas, 90' cln oil, h5' mud cut oil, 30'
              5387
                      -3299
Madison
                                                oil cut mud w/no wtr. IBHFP 38 FBHFP 85 (20 min) BHSIP
            ##5J172
A-1
                       -33812
                                                3090, Hydro 3163.
            *#5180
                                    ), 8
                       ~3392
A-2
              5490
                       -3705
                                    71
A-3
                       -3409
                                   331
             *5497
A.--L
             ±5636
                       -35118
                                    83
B-1
                                   175
             4505h
                       -3566
B-2
                                    6:
            ##5676
                       -3588
B--3
                                    61
            #×5707
                       -3619
B-L
B-5
              571da
                       -3656
                                    ?
            #H5784
                       -3696
C-1
                                                History Subsequent to Completion:
                                   180
              5792
                       ~370L
C-2
                                                        None
  **Probable prod. Zones (From DST struc-
    tural position, etc.
   #Shows
      Drill Pipe Corrections (Made)
            None Recorded
```



## EAST POPLAR UNIT NO. 32

#### WORKOVER NO. 1

Lease and Well Mo.:	East Poplar	Unit	والمتعارضة والمتعارة والمتعارضة والمتعارض والمتعارضة والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعا	والمراجعة
Field: Esst Poplar Unit				Montana
Well Location: SW NW Se				
STATUS PRIOR TO PRESENT JOB				
Date Completed: Hay 8	. 1954	Date Of Last	Morkover: N	lone
T.D.: 5821' PBTD:	5812' Perforat	ions:5	790-5800'	
Cumulative Production:	81,971 BO	555,463 B	<u>H</u>	
Letest Test: <u>January</u> ,	1973 88	BFPD 5 BOPD	83 BWPD ! 94% BS	SEM:
JUSTIFICATION FOR WORKOVER:	. •			
This well was completed in acid. Production has decre job should be attempted.	1954 from the C-3 eased and is uneco	B and treated wo pnomical. Befo	rith 4,000 gallo ore abandonment	ens of etching a stimulation

## SUMBARY OF WORKOVER?

- 3-9-73 5812' PBID Prepairing tomove in pulling unit.
- 3-10-73 5812' PBTD Prepairing to acidize well.
- 3-11-73 5812' PBTD Prepairing to run tubing and rods.

Tubing on vacuum this A.M.. Pulled tubing and layed down anchor, seating nipple and perforated nipple. Ran Baker retrievomatic packer, to 5770' (did not hydrotest - no truck available). Filled hole and spotted acid 1 joint above packer and set packer. Pressured annulus to 500 PSI - formation took acid at 3 BPM at 700 PSI and built to 1400 PSI with 34 bbls. in formation. Broke back to 1100 PSI with 50 bbls, in formation. Pressure slowly increased to 1200 PSI with all acid in formation. Pressure decreased to 1100 PSI with a 20 bbl. overflush in formation - a rate of 3 BPM and low pressure was maintained because of not being able to hydrotest tubing. I.S.I. = 500 PSI 15 Min. S(I) vacuum. S.I. overnight. Welk was acidized with 3000 gallons of 28% retarded, inhibited HCL acid.

.2-75 SELA: SDED Pump Tuesding

Pulled subing and layed down to packer. Ean tubing and rode with old pump and put wall to pumping. Started pumping at 1:60 P.M.

Losd Eluid and acid

228 Dbls.

3-13-73 5812 PBTD Fuzz Testing

Pumping up and unseated pump - Reseated pump and started pumping.

Lond To Recover .-Recovered Left To Recover

223 Bbls. 213 Bbls. -15 Bbls.

3-14-73 | 5312' PDTD | Pump Testing

18 Hr. Test Pumped 90 BF = 120 BFPD 99% BS&H 120 BFPD 0 BOFD Recovered all load fluid plus 105 bbls. of formation fluid

8-15-78 5912' FETA Pump Testing

Pumped 17-1/2 Hrs. 91 BV = 125 BFPD 100% BSMI 125 BFPD 0 BOPD

3-16-79 5812' PBTD Pump Testing

Pump would not hold pressure. Pulled and replaced same. Will have test in A.M.

3-17-73 | 5812' PETU | Pump Testing

2 Hr. Test Fumped 13 BF = 156 BFPD 100% BS&H 156 EMPD 0 EOPD

3-18-73 5812' PETO Pump Testing

20 Mr. Test Pumped 141 BF = 169 BFPD 100% BS&W 169 BWPD 0 BOPD

3-19-73 5312 PMTD Pump Testing

Pumbad & Hys. 32 BF = 192 BFP0 99% ESEM 190 BWPD 2 BOPD-

3-20-73 5812 PDTD Pump Testing

Pumped 4 Mrs. 33 BF = 198 BVPD 98% BSGN 194 BWPD 4 BOPD

3-21-73 5012 PBTD From Testing

Pumped 3 Eus. 24 BF = 192 BYPD 190 BWPD 99% BSAN 2 BORD

Unitary Folk WWeb symplay - No Wash

Page and Company of the Free Cardina

of the company weather the car be about the company of the contract of

years of the the decime of the west

Complete Control of the Telephone of the Mast

pagadap - projekt egyel daga Waading

Note that Report 31 78 to 188 trap 3 May 100 May 001 T.C.

THE NAME OF THE PARTY OF THE PA

3 Ur. Year Famped SM. 69 BY = 101 BERP 176 BIRG 7 DEMO 805 U.C.

4-5-73 | Dist PAR Pemp Testing

3 No. That Remped 23.11 NZ = 185 NTPD 177 EXPO 7 NOOD 55% W.C. Haddower Potential - To Drop From Report

Thank Familian this for

Manal VIII

to Levil: Tree of Www.loning Zona:

Tagleyer Februaris

5790' to 5300' (Jacket Al)

5012' (Unricegae)

G-Done (Nachangsa)

155 BMFH (014 E.S. 175 1174) 1 1000.

Tertover Bessensystil - Teles of the increased from SWA wa STI and will profession was increased from SUIDA to I STALL

3-22-73 5012' PETD Fumping - Ko Test

3-22-75 5812' PWTO Pump Testing

0 Mg. Test Fumped 32 BF = 192 EFFB 6 DOPD 186 DUMP 97% U.C.

3-24-75 5012' PUTS Pumping - No Yest

3-25-73 5012 PAID Fumping - No Yest

3-25-73 SS12' PETD Pump Testing

6 Hr. West Pumped 31 BF = 186 BFPD 6 BOPD 180 DWPD 97% W.C.

3-30-73 S812: P3TD Pump Testing

3 Mm. Test Fumped 22.69 BF = 181 BFPB 174 BWFD 7 BOPD 96% W.C.

6-5-73 5312' PETO Pump Testing

B Hr. Test Pumped 23.11 EF = 185 EFFD 177 EWPD 7 EOPD 95% W.C. Workover Potential - To Drop From Report

## ascar or workeyer:

Final Parforation:

Finel PMTD

Geologic Name Of Producing Zone:

Workover Potential:

5790' to 5800' (Unchanged)

5812' (Unchanged)

C-Zone (Unchanged)

185 BVPD 96% W.C., 177 BWPD 7 BOPD

Norkover Unsuccessful - Mater out was increased from 94% to 95% and oil production was increased from 5 EDSE to 7 HOPD

#### EAST POSTAR THAT RO. 32

#### HORKOYER EXSTORY NO. 2

Lease sad Ws	Il No. : Eas	t Popler Onit	No. 3%	ب ب سيدين مشيون المستوانية والحريث والما أنا مستحرب	راد المعاديد
Field:	Caus Poplar Unit	County:	Roosevalt	State:	<u>Lentena</u>
Well Locatio	m:SW_NW_Se	erion 15, 738	w, riste	A *	
		•	·	•	·
STATUS PRIOR	l to present Job:		•		
Date Complet	ed: <u>Nay 8, 19</u>	54	Date Of L	ast Workover:	Howe
T. D. :	321' PETO: 5812'	Parforations	5790	-5800'	Taman pamaha sarah dalam kalam maham mahan sarah Japater sarah saka yakan daga te
Cumplative E	Logischions	83,062 EO	58	2.522 BW	e Majorit Part sparagement in medicing o basis 55 million are miles i unique bas sociales of the Tay Tay I
Latest West:	9-12-73	66 BFTB	3 B02D	63 BUTO 95%	BSCW
	ida to complete thi				roduce, Am altompt ant.
12-18-73	5812' PBTD Move	in pulling un	it and rig	<b>ս</b> թչ-	
12-19-73	log from 5800' to	5400'. Ran with top of p	and settene lug at 5770	Go-Laternati	7-Wautron & Collar Jonal (Blite) 5-1/2" Sack of causent on
12-20-73	2-3/8" S.N. to 40 Rea 1-11/16" thru	00 PSI. Syli tubing perfo Pulled out o	t 6 joints, rating gen. I hole with	bent 3 joint Gun heng up gun. Ren 1-	alter A10 packer and is, split 1 coller. of 3012'. Vanble -11/16" sinker ber. night.

- 12-21-73 5762' PSTD

  Fulled out of hole with tubing, replaced bent joint and run in hole with tubing. Ran 1-11/16" perforating gun. Con would not go than senting hipple due to swelled head on gun. Replaced same. Perforated the 4-2 and 4-3 Zema from 5486-5496', 4 holes per foot with no vacuum or flow. Shut in for the night.
- 12-12-74 5762' PETS

  Tubing pressure after 15 Hr. S.I. 700 PSI. Opered well to test tank.

  We'l flowed 2.85 bbls. fluid and was dead in 15 mins. Rigged up swabline. Hade 9 runs with swab. Recovered 55 bbls. fluid (100% solt water) with no indication of fluid entry. Shut in well. Prepairing to acidize in A.M.
- 12-23-73 5762' PBTD Installed stripper head and acidized the A-2 and A-3 Zone perforations from 5480-5495' as follows: Circ. hole with selt water, set packer, pressured casing to 1000 PSI. Broke formation with 3400 PSI (S.W.), 1/4 BPM injection rate. Released pressure and packer. Spotted acid to within 2 bbls. of perforations. Set packer, repressured casing to 1000 PSI and pumped 3000 gallows of 28% MCL with inhibitor, emulsion breaker, and sequesting agent added at the following rates and pressures.

 Maximum Rate
 1-1/2 EPM

 Minimum Rate
 1/4 BPM

 Average Rate
 1 BPM

 Maximum PSI
 340000

 Minimum PSI
 9000

 Average PSI
 14000

Total Load Used 127 Ebls. ISIP 600 PSI 10 Min. S.I. 500 PSI Shut in for the might.

- 12-24-73

  5762' PBTD

  17 Hr. S.T. Tubing Pressure = 350 PST. Flowed to test tank 100 bbls. in 1 hr. and 15 mins. Turned to pit and flowed acid to pit. Shut in well.

  ISYP 110 PST 15 Min. S.T. 160 PST 30 Min. S.L. 175 PST 1 Hr. S.T. 180 PST. Installed adjustable choke, set on 16/64 and turned thru treater.
- 12-25-73 5762' PBTD Flowing to tank battery. TFP 1350 on a 16/64" choke. Wellhead sample 100% water.
- 12-26-73 5762' PBTp Rilled well with heavy solt water. Flenged up wellhead. Well did not did completely with 9.80/gallon salt water. Surved to bettery for flow test.
- 12-27-73 5762 PEND Well flowing Wo test Flowline leak. 160% water

# 8-3-75. 4800+ 351 BWS 997. 1/64

12-28-74	5762' YEND Well Flowing - No Tabb Tabb Line Leak 100% Watter
·	
10-29-70	SYSY' MOTO Well Pleving - No Year 100% Water
1x-20-73	5762' ZETD Well Flowing - Ho Zeon 100% Weter
12-31-73	5752' PRTS Voli Micwing - No Yest 100% Water
3.42.474	575% Parp Well Flowing - No Yesh 190% Water
1-2-74	5762' PETO Wall Flowing - No Yest 100% Water
1-3- Chwu 1-10-75	5762 PBTD Well Flowing - Wests were not you on this well but tent battary production indicates approximately 6 BOPD from it.
1-11-76	5762' PETO Phow Testing P-A7 Chebe 24 Hr. Yest 213 EFFD 6 BOTS 207 EMPA 97% W.C.
	Workover Potential - To Drop Rrott Report

## THE R OF HOUTOVERS

Winnl Perforations:

- 5490-53361

Final Para:

52521

Gablogical Rame Of Producing Zone:

A-2 and A-3 Zones

Morkover Potential:

213 BFAD 6 BOPD 207 BHPD 97% W.S. Workever Successful.

**4**2...

## DOWELL INCORPORATED

## TREATMENT REPORT

OVIVER MUSPHY 011 Company  POOL Teat Poplar  COUNTY ROOSEVELT  OWNERS REPRESENTATIVE  WELL NO. 32  FORMATION  FORMATION  MAGISON  PARTECULAR TO	DISTRICT Den	ver #15	61	TATION.	WITT	laton	DATE	4-80	1954
COUNTY ROSEVELL WITH MOTERN COUNTY ROSEVELL WITH MOTERN COVERS REPRESENTATIVE CHIPMENT CONTROL DEFIN 5812 P. B. FROM 5821  FERFORATING DATA OF PAYZONES SHOTEFT, FROM TO PRODUCTION OF THE PRODU	Control to the second	Marie Service	A		-	of the strategy, by the w	and Andrews	vehicles are senter thrown	The Date of the Lands
WELL DATA  WELL DATA  PERFORMING DATA OR PAY ZONES  PROSENTATIVE  WELL DATA  PERFORMING DATA OR PAY ZONES  SHOTSIFT, PROM.  TO.  SAME STREET TOTAL DEPTH. 5612 P. B. FROM. 5821  S. 5790 5800  FRESENT TOTAL DEPTH. 5612 P. B. FROM. 5821  S. 5790 5800  FRODUCTION  OIL WATER Q. O. R.  INITIAL  PRESENT  ACIDIEND SERVE  PRESENT  ACIDIEND SERVE  PRESENT  ACIDIEND SERVE  COMPLETION DATA  PACKER TURNISHED BY OPERATOR  DOWNLL  ACIDIEND SERVE  COMPLETION DATA  CABLE TOOL  ROTANY YOUR DEPTH. 5767  PRESENT  DETAILED RECORD OF TREAT OF THE SILLE OF MORTHAN CARLINGSUM  REMARKS  DETAILED RECORD OF TREAT OF THE SILLE OF MORTHAN CARLINGSUM  REMARKS  THE PRESSURE  ARRIVAL AT LOCATION WITH 1000 CALS. OF DOWELL JE1 X100  OUT S. BULS. OF ACID  OUT S. BULS. OF A			iny	1.	LEASE_	E.P.U.			A THE STATE OF THE PARTY
WELL DATA  FORMATION MAGISON FORMATION 5790 TO 5500  FERFORATING DATA OR PAT ZONES  FORMATION TO STATE OF THE		plan	Merchan	1-	COUNTY	A STATE OF THE STA	and the second s	TE Mont	ana -
PREPORATION NACES OF THE PROPERTY OF THE PROPE	Foculion To-Si	BN-51K		10	-OWNER	S REPRESENTATIVE	Curnu		padromer recently
PRESENT TOTAL DETTH 5812 P. B. FROM 5821  PRESENT TOTAL DETTH 5812 P. B. FROM 5821  PRESENT TOTAL DETTH 5818 SYS. CEMENT 300 LINER DETTH 5767 PACKER FURNISHED BY OPERATOR DOWELL  PRESENT OF DETTINING STATES OF THE STATES OF T		and the second			WELL	DATA			Maria Cara
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SECOPH  LEFT LOCATION  TREATMENT IS NOT CONVENTIONAL LIMESTONE FORMATION TREATMENT TO Broken head  W. B. Wilson					-	57 - 17 - 17 - 17 - 17 - 17 - 17 - 17 -	TO SECTION AND ASSESSED.	THE CONTRACTOR	HARLICE BERTHALL
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DISTRICT OFFICE COPY		4.17.19			. 7	W. B.	Wilson	<b>计学和约约</b>	<b>企为为广州</b> 市中
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## DOWELL INCORPORATED

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## TREATMENT REPORT

TR	EAT	M	EN	т	No.

DISTRICT 15 Devi				Ghudi	COLE IN		4-20	, 1953
OWNER Murphy	011	Co		LEASE	E. P.U	w	ELL NO. 32	,
POOL E, P.	12815			_COUNTY_	ROBSEVELT	s	TATE M mi	_
LOCATION 15-28N-	SIE		_	_OWNER'S	REPRESENTATIVE			
		14		WELL D	ATA			
FORMATION Madison					PERFORATING DATA	OR PAY ZON	ES	
AY-FROM 4-790	_TO_5	300			SHOTS/FT.		FROM	то
RESENT TOTAL DEPTH_ 58	12 P.	B. FROM_S	5821	- V	1			1
PIPE DATA-					-4	6	790	5800
CASING SIZE 5 2	w	T. 15	5		_		-	-
CASING DEPTH 58/	9sks	CEMENT	300	_		_		-
LINER SIZE		VT		_ ,	PRODUCTION-			
LINER DEPTH-FROM	1	ra	_	-		OIL	WATER	G. O. R.
LINER DESCRIPTION		in	7.70	-	INITIAL	-	_	_
TUBING SIZE 2 E 4 E		ртн <u>67</u> 6	-	-	PRESENT			_
PACKER-TYPE	V 17 10 10 10 10 10 10 10 10 10 10 10 10 10	РТН	wer.	-	ACIDIZING, SHOOTI	NG AND LOGG	ING RECORD-	
PACKER FURNISHED BY	OPERATOR.		WELL	_	· INITIO	,		
COMPLETION DATA-					101718	/		
DATE NOW	_CABLE T	1 7 7 7	. 1	-	,			
	RILLING FL	UID_/M	на	-	1			
SIZE OPEN HOLE				-	-			
TIME PRESSURE A.M. OR P.M. CASING TUBING	ARRIVAL A			RECORD REMARK	S TO /X/00 GALS. OF DOWEL	ı.		
A.M. OR P.M. CASING TUBING	ARRIVAL A			REMARK	s Telx100	L	BL	EED <u>23</u> BBL
A.M. OR P.M. CASING TUBING		T LOCATIO	ON WITH	REMARK	s Telx100	<b>L</b>	BL	EED 23 BBL
A.M. OR P.M. CASING TUBING	OUT OF	T LOCATIO	N WITH	REMARK	s Telx100	L	BL	EED 23 BBL
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STATION COPY.

DOWELL INCORPORATED

# TREATMENT REPORT

DISTRICT_	Denver	/15	STATION_	W1111	Laton	_DATE_	5-1	, 195
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OWNER_	turphy Con	rporatio	n	_LEABE	E.P.U.	w	ELL NO 32	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	East Popl			COUNTY	Roosevels	8	TATEMOF	tana
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				WELL	DATA			
TORM ATION	A Char				PERFORATING DATA OF	PAY TON		
ORMATION.	cole	rles	226	_		1111111111		то
AT-FROM_	5/40	78	000		BHOTS/FT.		FROM	cdoo
RESENT TO	TAL DEPTH 58	P. B.	FROM 5821	-			5740	5800
IPE DATA-						_		
CASING	SIZE ELN	WT.	15%"	2				
CABING	DEPTH KATO	SKS. C	EMENT 300					_
LINER S	2027	WT.	200		PRODUCTION-			
	EPTH-FROM	TO			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	OIL	WATER	g. o. R.
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1000000		n nen	W F7(4	7				
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PACKER		DEPI	H	-	ACIDIZING, BHOOTING	AND LOGG	ING RECORD-	
PACKER	FURNISHED BY	OPERATOR	DOWELL	-	THE PERSON NAMED IN	RI	CHIV	FD
OMPLETION	DATA-						VIII	EAL!
DATE		CABLE TOO		-			R# R 37 - 4 - 4 - 2 - 2	25,
ROTARY		DRILLING FLUI	ID	_			MAY 14 19	354
SIZE OP	EN HOLE	2				611 111		A - IS LESS - Spr.
200	1	*	Value on			OIL AND E	MS CONSERVATION	COMMISSION .
2.5			DETAILED	RECORD	OF TREATMENT	CF THE S	TATE OF MONTANA	- EILLINGS
TIME	PRESSURE							
	CASING TUBING	1		REMAR		7-7 Vd	70	w. after
	-	ARRIVAL AT	LOCATION WITH	500	GALS OF DOWELL	Jel X		S. 75.
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11:55	ETHIKO, Y. IV	Chamb 1		maina	ma tamina			
	0.195	Start 1		RETUR	ma terial			
12107	F00 000	Start 1	1 bbl Aci		pot blug			LUBH 23 BBL
12:15	500 200	Pluggin	BLE OF ACID	T BDO.	tted			-Tr
made to the same	19.00 A. C.	OUT OF TANKS FO	IN PER	PER				1.5
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T TREATMENT IS	NOT CONVENTIONAL	LIMERTONE FORMAT	ION TREATMENT TO		Traca month b	* BEST	-	0 M
HCREASE OIL OR	R BAS PRODUCTION, ST	ATE PURPOSE OF T	REATMENT,			_		
2.	3 200				B. Owen			2000
17 m								SERVICE ENGINE

E. H. Nielsen

File # 32

DOWELL INCORPORATED

STAGE NO.

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DISTRIC	т	/5		ST	TATION_	2./	Iston N.D.	DATE	3-7	, 1954
WNER_				CORP					LL NO.	
*00L	•			_ ر		COUNTY	ROOSEVE	st	ATE ANG	TANA
OCATIO	ν	350	_			OWNER'	S REPRESENTATIVE	_		
						WELL	DATA			
ORMATI	ON_C	dans	55				PERFORATING DATA	R PAY ZONE	s	
AY-FRO	M_ 6	790	_TO_3	800			SHOTS/FT.	F	ROM	то
RESENT	TOTAL DI	EPTH 53	112 p	B. FROM	5821	4		_7.	710	5800
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	NG SIZE_	3		WT. 23	7	_		_		-
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	KER-TYPE			DEPTH		_	ACIDIZING, SHOOTING	AND LOGGI	NG RECORD-	of the second
PACI	KER FURN	ISHED BY	OPERATO	RD	OWELL.	-				
	ION DATA						-			
						-	_			
POT	ARY			FLILLD						
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TIME	OPEN HO	LE	<u> </u>	DI		REMAR 50		1 15/18	77.	
TIME	PRE CASING	SSURE TUBING	ARRIVAL	DI	ON WITH	REMAR Joo	KS + 1/4 Down	11 15/28		FILL 24 BBL
TIME	PRE CASING	SSURE TUBING	ARRIVAL ST4	AT LOCATI	ON WITH	JOO!	GALS. OF DOWELL	1E/X10		BLEED 22 BBI
TIME	PRE CASING	SSURE TUBING	STA.	AT LOCATION TO THE STATE OF THE	ON WITH	POILS	GALS. OF DOWELL.	SEIXIO		BLEED 22 BBL
TIME	PRE CASING	SSURE TUBING	STA.	AT LOCATI	ON WITH	POILS	GALS. OF DOWELL	SEIXIO		BLEED 22 BBL
TIME OR F.M.	PRE CASING	SSURE TUBING	ARRIVAL STA	AT LOCATION TO THE STREET TO T	SON WITH	PLAS	GALS. OF DOWELL.	JEIXIO		BLEED 22 BBI
TIME M. OR P.M.	PRE CASING	SSURE TUBING	STA.	AT LOCATI	SON WITH	POOL	GALS. OF DOWELL.	JEIXIO		BLEED 27 BBL
TIME .M. OR F.M.	PRE CASING	SSURE TUBING	ARRIVAL STA	AT LOCATION TO THE STREET TO T	SON WITH	PLAS	GALS. OF DOWELL.	JEIXIO		BLEED 27 BBL
TIME	OPEN HO	SSURE TUBING	ARRIVAL STA. STA. OUT OF TANKS 2 3	AT LOCATION TORNATION	SON WITH	REMAR SO	GALS. OF DOWELL.	JEIXIO		BLEED 27 BBL
TIME .M. OR P.M.	PRE CASING	200 - 2100 - 2700	ARRIVAL STA STA STA OUT OF TANKS 23 27 23	AT LOCATION TORNATION	SON WITH	PER MINUTE	GALS. OF DOWELL.	SEIXIO plug.	forma	BLEED 2 3 BBL
TIME .M. OR P.M.	OPEN HO	200 - 2100 - 2700	ARRIVAL STA STA STA OUT OF TANKS 23 27 23	AT LOCATION  AT LOCATION  AT LOCATION  TORNATION	ON WITH	PER MINUTE	GALS. OF DOWELL,  GALS. OF DOWELL,  GIUS MATER  TO Spot  STAAT plus;  STAAT plus;  SAUT down.  RESUME po	SEIXIO	forma	BLEED 2 3 BBL
TIME .M. OR F.M.	PRE CASING	200 - 2100 - 2700	ARRIVAL STA STA STA OUT OF TANKS 23 27 23	AT LOCATION  AT LOCATION  AT LOCATION  TORNATION	ON WITH	PER MINUTE	START PLUS  SAUT SOME  START PLUS  START PLUS  TROM 12:	SEIXIO	forma 4 164	TIEN  S/ S/ CST.
TIME .M. OR F.M.	PRE CASING	200 - 2100 - 2700	ARRIVAL STA STA STA OUT OF TANKS 23 27 23	AT LOCATION  AT LOCATION  AT LOCATION  TORNATION	ON WITH	PER MINUTE	SANT SOWN PRESENTED	AFER TO	forma 40 160 201 200, 45	TIEN  S/ S/CST.
TIME	PRE CASING	200 2100 2100	ARRIVAL STA STA STA STA STA STA STA STA	AT LOCATION  AT LOCATION  SPANATION  10  10  10  10  10  10  10  10  10  1	ON WITH	REMAR SO	START PLUS  SANT SOME  START PLUS  SANT SOME  PRESSONING  Block de	AFER TO	forma 40 160 2:01 200, 42	TIEN  S/ S/CST.  TIEN  T
TIME OR F.M.	PRE CASING STO 6	200 2100 2100	ARRIVAL STA STA STA STA STA STA STA STA	AT LOCATION  AT LOCATION  AT LOCATION  TORNATION	ON WITH	PER MINUTE	START PLUS  SANT SOME  START PLUS  SANT SOME  PRESSONING  Block de	AFER TO	forma 40 160 2:01 200, 42	TIEN  S/ S/CST.  TIEN  T
TIME OR F.M.	PRE CASINO  STO 6  AGO J204  2600  1500	200 2100 2100 2100	ARRIVAL STA STA STA STA STA OUT OF TANKS 3 3 2 7 3 3 3 3 3 3	AT LOCATION  AT LOCATION  TORNATION  10  10  10  14	ON WITH	REMAR SOO JOO'S PLANE HINUTE	STANT PLUS  STANT	ALIXION TO JONE TO JON	# 160 200, LE 200, LE 200, LE 200, LE	TIEN  S/ S/CST.  TIEN  T
TIME	PRE CASINO  1600  1500  1500  1500	200 2100 2100 2100 2100 2100	ARRIVAL STA STA STA STA STA OUT OF TANKS 23 27 23 33 33.5	AT LOCATION  27 27 11  27 11  59 18 18  FORMATION  10.5	ON WITH	REMAR SOO JOO JOS SERVING PER HINUTE	START PLUS  SANT SOME  START PLUS  SANT SOME  PRESSONING  Block de	ALIXION TO JONE TO JON	# 160 200, LE 200, LE 200, LE 200, LE	TIEN  S/ S/CST.  TIEN  T
TIME	PRE CASINO  1695  2600  1500  1500  1500  1500  1500  1500	200 2100 2100 2100 2100 2100 2100 2100	ARRIVAL \$74. \$74. \$74. \$74. \$74. \$73. \$23. \$27. \$3. \$3. \$27. \$3. \$3. \$3. \$3. \$3. \$3. \$3. \$3	AT LOCATION  AT LOCATION  TORNATION  10  10  10  14	ON WITH  Y 64/ 64/ FACID PER READING	REMAR SOO JOO JO JO JO J. 3	STANT PLUS  STANT	ALIXION TO JONE TO JON	# 160 200, LE 200, LE 200, LE 200, LE	TIEN  S/ S/CST.  TIEN  T
TIME	PRE CASINO  1615 2600 1500 1500 1500 1500 1500 1500 1500	200 2100 2100 2100 2100 2100 2100 2100	ARRIVAL \$74. \$74. \$74. \$74. \$000 or or tanks \$23. \$27. \$3. \$27. \$3. \$3. \$3. \$3. \$3. \$3. \$3. \$3	AT LOCATION  27 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ON WITH  Y 64/ 64/ FACID FER READING	REMAR SO JOO JO J	SANT SOWNER PRESENTED	ALINE TO JUNE TO DUNG	100 ma 2:01 2:01 2:00, LE 2:00, LE 2:00 A SE 2:00 B	TIEN  S/ S/ CST.  TIEN  S/ S/ CST.
TIME	PRE CASINO  1615 2600 1500 1500 1500 1500 1500 1500 1500	200 2100 2100 2100 2100 2100 2100 2100	ARRIVAL \$74. \$74. \$74. \$74. \$74. \$73. \$23. \$27. \$3. \$3. \$27. \$3. \$3. \$3. \$3. \$3. \$3. \$3. \$3	AT LOCATION  27 27 11  27 11  59 18 18  FORMATION  10.5	ON WITH  Y 64/ 64/ FACID PER READING	REMAR SOO JOO JO JO JO J. 3	STANT PLUS  SANT SCHOOLL,  STANT PLUS  STANT PLUS  SANT SCHOOL  PRESENTE P	Alist de To	100 ma 2:01 200, LE 200, LE 20	TIEN  S/ S/ CST.  TIEN
TIME  11:30  11:30  2:01  2:13  2:23  2:24  2:25	PRE CASING  ST 6  /441  2600  J204  2600  /500  /500  /500  /500  /500  /500  /500  /500  /500  /500  /500	2100 2100 2100 2100 2100 2100 2100 2100	374. 574. 574. 574. 000 or or tanks 23 27 23 23 23 23 48 58 69 85	AT LOCATION  27 27 11  388LS. 6  10. 5  14  25  35  46  62	ON WITH  Y & A  S & A  FER READING  TER READ	REMAR JOO JOI PLA MINUTE J.O J.O J.O J.O J.O J.O J.O J.O	START PLUS  ALL ASID  ALL ASID  START 2.	Alisted of To I and I to I t	100 ma 2001 200, LE 200, LE 20	Tien Stopest
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GENERAL OFFICE COPY.

STATION OR DISTRICT MANAGER

BERVICE ENGINEER

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#### OIL WELL CEMENTING COMPANY

# DUNCAN, OKLAHOMA CEMENTING SERVICE TICKET

								•		-									
DATE	3-24-	54		PLACE	Pop.	lar,	Мо	nt.		-				ORDE	R NO				
Well Na_	_32	Farm	EPU		County_	Roo	sev	elt				_State	Moi						
2	Mur	phy (									= -	Owner o		Penro		orlg.			
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Gity &	El	Dorac	do,	rk.		Truck —Calla	d Out	8		<u></u>	360	City &State > 1: ion	1	M Job	)  an	5	Job plet	Com-	6:30 <u>am</u>
OWN	ER, OPER	ATOR O	R HIS	AGENT STAT	ES THE								E JO						
TYPE	OF JOB (	/) ONE	<u> </u>	CASING	н	DLE DA	TA	TUBI	NG OR	RDRIL	L PIPE	CEMENT	NG PA	CKER					
SURFACE			NEW	1	BORE	,,	. 1	SIZE				SIZE		-		COLLAR	OAT EQ	UIPME	<u> </u>
INTERME			USED		3126	12	4	-1	-					1)-	GUIDE				
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PLUG BA			1		ROTARY	Ί,		, WEIG	SHT			WEIGHT		1	2 H(	OWCO			<del></del>
GROUTIN			DEPTH	992	CABLE			TOTA	.  -			DEPTH			~	300	<u> </u>	•	
OTHER (Write In)			TYPE	J-55	TOOL			DEPT	H			DEPTH SET		Ī					
		SQUE	EZE OR	PLUG BACK	DATA									CEMENT					
PÜI	RPOSE	DEPTH F	ROM	TO APPROX.	CAS	IN SI		DLE	BUL			SACK	ED7	سب		ED WT. P			
WATER	Ì						<u></u>		SAC		-	TYPE			BRANG		% GEL	OTHE	RADMIX
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Abandon																			
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พิโ	tose sign	iture ap	pears be	nd equipment low and who	certifie	s the c	above	data j	មការ	hed l						<b>4</b> (\$8.). <b>24</b>		-11-0-0	
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T	he follow	ing info	mation	is urgently s	equeste	d in o	rder t	hat w	mas							teep our	standar	d of s	<b>6</b> 70-
ice	up to th	e highes	t point.		_				_		-				•	•		•	
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COPY No. 53718 G

# HALLIBURTON OIL WELL CEMENTING CO. FORMATION TESTING AND TOOL SERVICE TICKET

			**			20/2	-T	
4-8-	54	Place_	· Po	opl	ar, Montana Order No Ostili I	3763	OTHER DESCRIPTION_	1 3'
Well No 32	- Parm	· EF	ָ טֹי	****	County Roosevelt See 15 Twp 28N	Range 51E		
UIA		1	y Cor	p • ^{:;:}	And the second of the second o	OWNER	Murphy Co	rp.
R G MAILING F ADDRESS.	, 1	lurph	y Bld	<u> </u>	CONTRACTO	DR P	enrod Drlg	. Co.
T CITY &	1	ElDor	ado,	Ark	Truck 9 AM On 11	AM Job PM Began	8 AM Jo	b c 62 - 6
epth of	Dept Well	b of	548 Condi	tion	good Size 4" H90 Size -		Sizo Casing	
Stind St	addl	ガメルリーの	Distance of	6 64	No. 4145 Pressur RT 308 PRD 1476	Temperature Device No		
Size of 6 ]	/8"	Longth of	10 be	twe	en · · ·	Li DR sult	CAS D   OIL	DRY
**************************************	HQ. 64	ACKS	ANC.		KIND OF TOOL	DEPTH SET	PRESS	URE
AND PUMPING				:			BREAKING FORM -	PHIEBRUDE
	<u> 12/25 a</u>		5½".		5 7/8" Hydrspring tester	54931	Top	
1950	₩.,	1.81			No jars run by request	55031	bottom	
10	137				J-50 closed in Press valve use	i .		<u>.</u>
136. 11.		141						
Price Job	R	305	254	00	Kind of Job Straddle test in Madiso	n lime	Reco	vered
•••	. R	307	75	00	gas to surface in 3 hrs 20		30' clean	oil
acker Chargo Other Charge (Ex	R R	335	15	00	5165' salt water			
OTAL			344	00				
he Above Job	Wes Done,	And All T	ools Wers Us	ed Und	er The Exclusive Control, Direction And Supervision of the Owner, Operate	or or His Agent Wh	osa Signature Appears	Below.
Т.	M. C			-	Wolf Point, Mont.		Curnutt	· · · · · · · · · · · · · · · · · · ·
The Following Is	formation is	Urgently	Requested in	Order	That We may Be Fully Advised And To Enable Us To Keep Our Standard	of Service Up To	The Highest Point.	
Was Operatio	n Of The	Equipme	ent Satisfac	tory?.	Was The Job Satisfactorily C	ompleted?		
Suggestions:_						<u>-</u>		
	<del> </del>					1		•
				<del></del>				<del></del>
_			•		m	J. W. E	urnutt	
$\Box$	<b>S</b>	(a)	$\nabla$		NTO 57030 A T		ATOR OR HIS AGENT	

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OIL WELL CEMENTING COMPANY

### DUNCAN, OKLAHOMA

## CEMENTING SERVICE TICKET

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DATE	4-1	.0-54		PLACE	Popla	ir,	Mor	it.					ORE	DER NO.				
Well No.	32	Form_	E.P	.U	County_	Roc	sev	relt			State	Mor	nt.	Sec.	15	т	14 R	51
و				rporati							Owner _Contrac	or						
Mailir	ng			ilding							City &	10r						
E Gity 8	B _e	ElDor	ado	Ark.		Truci				On	Stato	6	AM J	ob		M Jo	b Com-	AM
State								1				6		egan		M pl	oted	PM
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TYPE	OF JO	B (V) ONE	_	CASINO	НС	LE DA	TA	TUBIN	G OR DE	ILL PIPE	CEMEN	TING	PACKER	1				
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	EDIATE		USED -		1			-		_	.]	-		EUIDE			-	
SQUEEZ			SIZE		TOTAL			TYPE			TYPE			FLOAT	SHOE			
PUMPIN			WEIGH	T		<b> </b>		-			1				OTHE	R EQU	PMENT	= <del></del>
PLUG E			1	`  <del></del>	ROTARY	İ		WEIG	нт		WEIGHT			<b></b>				
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l		SQUE	EZE OR	PLUG BACK	DATA								CEME	NT DATA				
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		TRA TRUCK	CK						CEMENT	ER								
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	rt t		AL CHAR				<u> </u>	.1		<u> </u>				<del></del>				<del>!</del>
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					_						M. G.			AGENT				<del></del>
7	The fol	lowing info	rmation	is urgently r	equested	in or	der 1	hat wa	mav be						seed our	standa	ard of	50TU-
i	ce up t	o the highe.	st point.							-				, <b>43 (0</b> 11	.oop our	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0,	••••
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COPY No. 37441 G



#### OIL WELL CEMENTING COMPANY

# DUNCAN, OKLAHOMA CEMENTING SERVICE TICKET

						CEME	NTI	NG S	ERVI	CE T	ICKET							
DATE 4-	-16-5	4	<u>.                                    </u>	PLACEF	opl	ar,	Mon	t.			-		ORD	ER NO.				
Well No_		Farm_			County.						State			Soc		T	R_	
2		Mur	phy	Corpora	atio	n	-				Owner o	or .						
Mailing				Buiıdi							—Contract City &	ror	<del></del>					
Address &	<u> </u>										State			<del></del>				
State_		Elu	<u>orac</u>	lo, Ark	<u></u>	Truc Col	k led Out	10:	30 PM	Loc	8:3	<u>'</u>	M Jo	b 11:	<u>30 斜</u>	A Jo F ple	ted	:30 FW
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TYPE	OF JOB (	/) ONE	1	CASING		OLE D	ATA	TUBIN	G OR D	ILL PIP	E CEMENT	ING P	ACKER		· · · · · · · · · · · · · · · · · · ·			_
SURFACE			NEW		BORE	١,		SIZE			SIZE			FLOAT C		DAT E	UIPMENT	<del>'</del>
INTERME			USED		3126	$\mathcal{L}$	<del>.</del>	_			-∤	/		GUIDE S			/	
PRODUCT			SIZE		TOTAL DEPTH			TYPE			TYPE			FLOAT S		/	•	
SQUEEZE PUMPING		X	WEIGH	п	1	1		-			1				OTHER	EQUI	MENT	<del></del> }
PLUG BA			1		ROTA	RY		WEIG	ᅢ /		WEIGHT				/	<u>·</u> _		
GROUTIN	6		DEPTH	<del>/</del>	- CABLE	:		TOTAL			DEPTH SET							
OTHER (Write In)			TYPE		100L			DEPT	<u>'                                    </u>		SET							
		SQUE	EZE OR	PLUG BACK	DATA								CEMEN	IT DATA				
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Abandon					1			<b> </b> -		+		$\overline{}$						—- I
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TYPE HEAT								MAXIN	1UM	4)			MEAN	URED WI	TH LINE	?		
_				AL CHARGES	_		TR	UCK	TIT	E ]		NAME	_		LOCA	TION	1_	STATE
) .PRICE REF	PEPIH OF	JOB	<del>}</del>	(	FT.		3,	717	CEMEN		Walnwr		ıt		T	'iog	, ,	N.D.
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<u></u>	MILEA	GE		<u>\$</u>		<del> </del>	-		CĖMEN	TER								
		<del></del>					-	İ	DRIVER					$\neg$			•	
				<u> </u>		<del>                                     </del>	-		CEMEN	TER								
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						-								J. W.	Cut	nut	t	
													OWNE	R, OPER	TOR OR	HIS 7	GENT	

COPY No. 37442 G

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#### OIL WELL CEMENTING COMPANY

# CEMENTING SERVICE TICKET

DATE 4	-17-5	4		.PLAC	CE	Po	plar	·, M	lont	<u> </u>			ORD	ER NO			
Woll Na	32	_Farm_	E.F	٠. U	<u></u>	_County_	Roc	sev	elt			State		_Sec/_5	т. 1	9 R.	51
2	Mur	phy	Corp	or	atio	n								od Urlg.			
Mailing Address.	Mur	phy	uil	ldi	ng							Cit. R		report, I			
GCity &		orad	0, 4	irk			Truck Colle	d Out		3 <u>AM</u>				2b 3:30		b Com-	4:30#¥
OWNE	R, OPERA	ATOR O												BE PERFORMED	Į		
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SURFACE	F JOB (√)	ONE	NEW		Х	BORE	OLE DA	TA	SIZE	G OR DRII	L PIPE		IG PACKER	MAKE FI	OAT E	UIPME	NT
INTERMED		3.5	USED			- SIZE			- 3126			SIZE		FLOAT COLLAR GUIDE SHOE			
PRODUCTION	ON	<u>X</u>	SIZE	_	5 13	TOTAL			TYPE			TYPE		FLOAT SHOE			
SQUEEZE PUMPING		<del></del>	WEIGH		25	-			-			-		OTHE	R EQUII	PMENT	
PLUG BAC	CK .		DEPTH	-	500G	- ROTAR	Y		WEIG	^{HT}		WEIGHT		HOWCO Fi	LLu	ı sh	oe
GROUTING OTHER	<del>-</del>		TYPE	$\vdash$	<u>5897</u>	CABLE			TOTA	;		DEPTH SET					
(Write In)		SOUE		PII	IG RAC	K DATA			Т			<u> </u>	CEMEN	IT DATA			<del></del>
PURF	POSE	DEPTH F			APPROX.	1	IN S		DLE	BULK7	X	SACKE	07	MIXED WT.			
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· · · <del>-</del> · · · ·				TVDE		hishba			CIRCL	LATING_		400		EQUEST? X		<u> </u>	
TOP PLUG_		X		TVDE		Kubbe	r		MININ	LATING_		400	BY R	EQUEST? X			
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